

Group 14.—IRON AND STEEL AND THEIR PRODUCTS, EXCEPT MACHINERY

The group as a whole.—This group of industries includes establishments engaged primarily in the production of pig iron and of steel; iron and steel castings; and the rolling and forging of iron and steel into semi-finished and finished rolled and forged products; and in further fabricating of the same into a great variety of finished iron and steel commodities. Some industries in this group report products made wholly or partly of nonferrous metals, such as hardware, stamped and pressed metal products, wire and wire products, ornamental metal work, plumbers' supplies, and metal or metal-covered doors, sash, and frames. This group does not include machinery and machine-tool attachments and dies (see Group 17), automobiles and automobile equipment (see Group 18), and transportation equipment except automobiles (see Group 19).

Establishments which roll or forge iron and steel and operate departments within the same plants for further processing into products, such as wrought pipe, bolts and nuts, wire and wire products, and tin plate andterneplate, are assigned in their entirety to the "Steel works and rolling mills" industry, except that blast-furnace departments are classified separately. These products, when manufactured in plants other than departments of rolling mills, although in some cases under the same ownership, are classified in other industries within this group. Thus, the statistics for certain of these industries by no means indicate the full extent of the manufacturing operations carried on in producing the various classes of commodities covered by the industry designations. In the tables presenting detailed statistics of products, however, data are given covering the total output of the individual classes of commodities, whether made in plants operated in

connection with rolling mills or in plants classified in other industries.

Changes in classification.—At the census for 1939 a number of the 1937 industry classifications were broken down into two or more industries. There follows the industries in which such changes were made, showing, respectively, the 1939 and the 1937 industry titles:

"Steel works and rolling mills" and "Steel castings" were formerly "Steel works and rolling-mill products." "Gray-iron and semisteel castings" and "Malleable-iron castings" were formerly "Foundry products (gray-iron and malleable iron)." "Oil burners, domestic and industrial," "Steam and hot-water heating apparatus (including hot-water furnaces)," "Stoves, ranges, water heaters, and hot-air furnaces (except electric)," "Steam fittings, regardless of material," "Heating and cooking apparatus except electric, not elsewhere classified" were formerly "Heating and cooking apparatus, except electric." "Vitreous enameled products, including kitchen, household, and hospital utensils," "Automobile stampings," "Stamped and pressed metal products (except automobile stampings)," "Enameling, japanning, and lacquering" were formerly "Stamped and pressed metal products; enameling, japanning, and lacquering."

In addition, one industry was first treated as a separate industry for 1939, namely "Cold-rolled steel sheets and strip and cold-finished steel bars made in plants not operated in connection with hot-rolling mills." This industry was a part of the "Machine-shop products" industry for 1937.

A special tabulation of the 1937 figures, and in some cases the 1929 figures, was prepared to show comparable data for the industries in which the changes occurred.

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SUMMARY FOR GROUP 14.—IRON AND STEEL AND THEIR PRODUCTS, EXCEPT MACHINERY: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939	8,994	966,367	\$1,313,633,202	\$3,635,870,517	\$6,591,530,456	\$2,955,659,939	5,344,511
1937	8,382	1,140,929	1,619,788,388	4,056,338,113	7,445,350,168	3,389,012,055	(⁴)
SUBGROUPS, INDUSTRIES, AND CENSUS YEAR							
SUMMARY FOR SUBGROUPS AND FOR INDIVIDUAL INDUSTRIES							
BLAST FURNACES, STEEL WORKS, AND ROLLING MILLS:							
1939	334	388,441	\$598,036,616	\$2,036,191,025	\$3,270,821,877	\$1,234,630,852	4,944,118
1937	352	461,118	755,426,551	2,314,829,957	3,818,788,847	1,503,958,890	(⁴)
Blast-furnace products—							
1939	81	19,537	28,312,336	463,719,471	550,802,313	87,082,842	(⁴)
1937	87	23,075	38,001,438	544,880,977	672,525,407	127,644,430	(⁴)
Steel works and rolling mills—							
1939	253	368,904	569,724,280	1,572,471,554	2,720,019,564	1,147,548,010	(⁴)
1937	265	438,043	717,425,113	1,769,948,980	3,146,263,440	1,376,314,460	(⁴)
IRON AND STEEL FOUNDRY PRODUCTS:							
1939	1,432	123,045	151,738,302	170,168,673	463,715,999	293,547,326	87,485
1937	1,466	156,585	203,318,559	210,204,323	576,303,391	366,099,068	(⁴)
Gray-iron and semisteel castings—							
1939	1,161	58,428	70,757,944	78,971,925	209,719,754	130,747,829	18,671
1937	1,152	73,993	94,065,057	96,963,681	261,441,613	164,477,932	(⁴)
Malleable-iron castings—							
1939	83	18,041	21,555,489	17,950,681	53,450,770	35,500,089	13,057
1937	84	23,713	28,819,244	24,003,586	69,515,605	45,512,019	(⁴)
Steel castings—							
1939	164	30,088	41,941,774	45,232,070	135,466,423	90,234,353	48,815
1937	145	41,299	62,351,378	63,795,660	184,227,710	120,432,050	(⁴)
Cast-iron pipe and fittings—							
1939	74	16,488	17,483,095	28,013,997	65,079,052	37,065,055	6,942
1937	75	17,580	18,082,880	25,441,396	61,118,463	35,677,067	(⁴)
TIN CANS AND OTHER TINWARE:							
Tin cans and other tinware not elsewhere classified—							
1939	248	31,770	36,397,817	249,044,215	372,616,014	123,571,799	12,674
1937	224	33,145	37,194,128	245,110,322	358,796,401	113,686,079	(⁴)
WIRE PRODUCTS:							
1939	800	54,870	68,234,617	180,769,729	348,227,828	167,458,099	32,891
1937	698	60,483	75,921,287	184,306,483	358,588,587	174,282,104	(⁴)
Wire drawn from purchased rods—							
1939	95	21,969	29,965,840	99,982,019	176,503,111	76,521,092	25,096
1937	93	24,580	33,967,410	100,375,112	182,149,368	81,774,256	(⁴)
Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills—							
1939	36	2,515	2,730,275	5,836,150	12,907,854	7,071,704	3,415
1937	42	2,432	2,745,448	5,635,774	11,929,131	6,293,357	(⁴)
Wirework not elsewhere classified—							
1939	669	30,386	35,538,502	74,951,560	158,816,863	83,895,303	4,380
1937	563	33,471	39,207,429	78,295,597	164,510,088	86,214,491	(⁴)
CUTLERY, TOOLS, AND HARDWARE:							
1939	1,196	73,604	84,056,536	116,121,261	319,455,285	203,334,024	76,995
1937	1,149	85,807	100,189,901	126,369,743	350,614,174	224,244,431	(⁴)
Cutlery (except aluminum, silver, and plated cutlery) and edge tools—							
1939	266	15,399	16,797,297	18,756,420	59,924,396	41,167,976	24,896
1937	251	16,830	18,633,401	18,736,987	68,193,656	49,456,669	(⁴)
Tools (except edge tools, machine tools, files, and saws)—							
1939	387	15,343	18,002,210	27,355,354	75,290,333	47,934,979	9,985
1937	369	17,612	21,132,440	30,958,820	80,043,549	49,086,729	(⁴)
Files—							
1939	22	3,205	3,838,520	2,452,888	11,293,946	8,841,058	4,642
1937	21	3,715	4,815,466	3,343,799	13,652,554	10,308,755	(⁴)
Saws—							
1939	87	4,072	5,197,649	6,784,365	18,470,682	11,686,327	2,760
1937	80	4,384	5,576,272	7,414,760	19,853,034	12,438,274	(⁴)
Hardware not elsewhere classified—							
1939	434	35,645	40,220,860	60,772,244	154,475,928	93,703,684	34,712
1937	428	43,326	50,032,322	65,915,377	163,869,381	102,954,004	(⁴)
HEATING APPARATUS AND PLUMBERS' SUPPLIES:							
1939	1,673	119,919	149,088,405	294,670,442	686,126,176	391,455,734	91,546
1937	1,524	139,012	176,263,632	313,200,106	718,485,098	405,284,992	(⁴)
Enameled-iron sanitary ware and other plumbers' supplies (not including pipe and vitreous and semivitreous china sanitary ware)—							
1939	259	24,605	30,768,552	52,630,117	125,578,189	72,948,072	23,258
1937	241	25,240	30,635,144	50,116,242	113,920,049	63,803,807	(⁴)
Oil burners, domestic and industrial—							
1939	130	1,498	1,893,283	10,272,883	18,468,017	8,195,134	957
1937	113	1,865	2,314,808	9,354,988	19,033,608	9,678,620	(⁴)
Power boilers and associated products—							
1939	448	18,888	25,298,161	70,654,747	140,959,533	70,304,786	22,764
1937	453	24,485	33,842,085	82,979,232	165,279,797	82,300,565	(⁴)
Steam and hot-water heating apparatus (including hot-water furnaces)—							
1939	68	8,493	9,921,515	17,165,268	45,377,801	28,212,533	9,761
1937	60	9,774	11,705,292	17,907,497	43,633,599	25,726,102	(⁴)
Stoves, ranges, water heaters, and hot-air furnaces (except electric)—							
1939	449	41,701	48,069,160	97,475,213	223,427,130	125,951,917	19,814
1937	409	49,570	59,399,580	107,826,043	236,719,963	128,893,920	(⁴)
Steam fittings, regardless of material—							
1939	181	21,815	29,629,764	37,667,330	111,985,627	74,318,297	14,342
1937	164	25,811	35,286,496	38,420,630	124,128,574	85,707,944	(⁴)

See footnotes at end of table.

SUMMARY FOR GROUP 14.—IRON AND STEEL AND THEIR PRODUCTS, EXCEPT MACHINERY: 1939 AND 1937—Con.

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
SUBGROUPS, INDUSTRIES, AND CENSUS YEAR—continued							
SUMMARY FOR SUBGROUP AND FOR INDIVIDUAL INDUSTRIES—continued							
HEATING APPARATUS AND PLUMBERS' SUPPLIES—continued. Heating and cooking apparatus, except electric, not elsewhere classified—							
1939.....	138	2,919	\$3,507,970	\$8,804,884	\$20,329,879	\$11,524,995	650
1937.....	94	2,267	3,082,227	6,595,474	15,769,508	9,174,034	(⁴)
METAL STAMPING, ENAMELING, GALVANIZING, JAPANNING, AND LACQUERING:							
1939.....	963	55,551	64,352,261	136,284,024	283,598,572	147,314,548	10,483
1937.....	807	62,212	74,517,121	150,675,109	300,033,080	149,357,971	(⁵)
Vitreous enameled products, including kitchen, household, and hospital utensils—							
1939.....	55	10,809	11,441,682	20,348,180	44,239,055	23,890,875	3,913
1937.....	48	11,326	11,361,736	19,293,265	41,115,222	21,821,957	(⁶)
Automobile stampings—							
1939.....	90	8,597	11,970,203	21,826,766	47,833,155	26,006,389	40
1937.....	94	14,964	20,703,783	39,998,156	78,920,906	38,922,750	(⁶)
Stamped and pressed metal products (except automobile stampings)—							
1939.....	655	33,112	37,535,454	89,140,826	178,395,076	89,254,250	6,375
1937.....	527	31,905	37,788,370	85,200,501	163,862,561	78,662,060	(⁶)
Enameling, japanning, and lacquering—							
1939.....	80	1,821	2,062,275	2,455,622	6,935,646	4,480,024	100
1937.....	74	2,868	3,287,092	3,656,147	10,140,321	6,484,174	(⁶)
Galvanizing and other coating—carried on in plants not operated in connection with rolling mills—							
1939.....	83	1,212	1,342,647	2,512,630	6,195,640	3,683,010	55
1937.....	64	1,119	1,376,140	2,527,040	5,994,070	3,467,030	(⁶)
FABRICATED STRUCTURAL STEEL AND ORNAMENTAL METAL WORK:							
1939.....	1,343	43,217	58,089,834	191,474,644	332,888,761	141,414,117	31,653
1937.....	1,286	47,222	65,776,892	189,726,025	342,670,677	152,844,652	(⁶)
Fabricated structural steel and ornamental metal work, made in plants not operated in connection with rolling mills—							
1939.....	1,138	35,477	47,549,506	172,437,165	284,669,659	112,232,494	29,498
1937.....	1,132	38,814	53,898,058	169,673,176	292,755,904	123,082,728	(⁶)
Doors, window sash, frames, molding, and trim (made of metal)—							
1939.....	205	7,740	10,531,328	19,037,479	48,219,102	29,181,623	2,155
1937.....	154	8,408	11,878,834	20,052,849	49,914,773	29,861,924	(⁶)
MISCELLANEOUS IRON AND STEEL PRODUCTS:							
1939.....	955	75,860	103,647,814	261,146,504	514,079,944	252,933,440	56,666
1937.....	886	95,253	131,178,317	321,916,045	621,069,913	299,153,868	(⁶)
Bolts, nuts, washers, and rivets—made in plants not operated in connection with rolling mills—							
1939.....	155	14,331	18,332,950	38,708,570	84,117,969	45,409,399	16,492
1937.....	138	16,340	22,088,126	44,342,158	98,079,243	53,737,085	(⁶)
Forgings, iron and steel—made in plants not operated in connection with rolling mills—							
1939.....	207	15,372	22,652,054	51,973,575	104,883,196	52,909,621	13,382
1937.....	194	18,255	27,659,271	63,223,605	122,835,051	59,611,446	(⁶)
Wrought pipes, welded and heavy riveted—made in plants not operated in connection with rolling mills—							
1939.....	49	8,370	12,306,077	41,856,222	75,864,616	34,008,394	4,595
1937.....	53	14,125	19,436,410	68,628,783	113,768,744	45,139,961	(⁶)
Springs, steel (except wire)—made in plants not operated in connection with rolling mills—							
1939.....	53	2,940	4,277,439	12,795,702	23,044,252	10,248,550	125
1937.....	57	3,902	5,803,978	16,153,285	27,233,204	11,079,919	(⁶)
Screw-machine products and wood screws—							
1939.....	345	16,924	22,106,007	32,649,213	82,806,869	50,157,656	8,830
1937.....	311	21,287	28,030,091	42,713,755	102,725,083	60,011,328	(⁶)
Steel barrels, kegs, and drums—							
1939.....	64	6,072	7,360,075	32,328,346	49,165,973	16,837,627	2,105
1937.....	58	6,281	7,356,641	30,295,652	48,175,322	17,879,670	(⁶)
Firearms—							
1939.....	23	5,001	6,846,317	3,052,556	17,711,651	14,659,095	6,855
1937.....	21	6,847	9,670,152	4,333,194	21,554,870	17,221,676	(⁶)
Safes and vaults—							
1939.....	16	1,236	1,589,088	2,413,251	6,084,319	3,671,068	1,825
1937.....	14	1,132	1,445,413	1,997,640	5,149,397	3,151,757	(⁶)
Cold-rolled steel sheets and strip and cold-finished steel bars made in plants not operated in connection with hot-rolling mills—							
1939.....	43	5,644	8,177,807	45,369,069	70,401,099	25,032,030	2,457
1937.....	40	6,634	9,688,235	50,227,973	81,548,999	31,321,026	(⁶)

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Wage earners and wages.³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁴ This figure is not the sum of the figures shown for the industries as the figures have been revised for the "Cast-iron pipe and fittings" industry. This revision has not been carried to the group total or to the total for all groups for the United States.⁵ Not called for on schedule.⁶ Data on horsepower of prime movers for the "Blast-furnace products" and "Steel works and rolling mills" industries cannot be shown separately because certain establishments maintain central power plants serving both their blast furnaces and their steel works and rolling mills.⁷ See footnote 4, which appears on the "Wage-earners" figure for the total for the group.

IRON AND STEEL AND THEIR PRODUCTS, EXCEPT MACHINERY

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GENERAL STATISTICS IN DETAIL FOR THE GROUP, THE SUBGROUPS, AND FOR THE INDUSTRIES¹: 1939

ITEM	Aggregate for the group	BLAST FURNACES, STEEL WORKS, AND ROLLING MILLS			IRON AND STEEL FOUNDRY PRODUCTS					TIN CANS AND OTHER TINWARE
		Total	1411	1412	Total	1421	1422	1423	1424	1430
Number of establishments ²	8,994	334	81	253	1,482	1,161	83	164	74	248
Proprietors and firm members.....	3,486	1	1	1	562	551	2	6	3	83
Persons reported by manufacturing industries, total ³	1,127,413	435,307	22,027	413,280	139,263	65,459	20,186	35,567	18,051	38,013
Salaried officers of corporations ⁴	11,918	405	21	384	1,878	1,261	170	335	112	176
Manufacturing:										
Salaried employees ⁵	105,207	36,039	1,890	34,149	11,302	4,578	1,658	3,957	1,109	4,710
Wage earners (average for the year) ⁶	966,367	388,441	19,537	368,904	123,045	58,428	18,041	30,088	16,488	31,770
Distribution.....	33,145	2,973	31	2,942	2,387	962	246	875	304	819
Construction.....	9,593	7,122	546	6,576	475	144	65	258	8	519
Other.....	1,183	327	2	325	176	86	6	54	30	19
Salaries and wages, total.....	\$1,695,240,869	\$709,343,726	\$34,497,508	\$674,846,218	\$191,511,671	\$88,374,243	\$26,415,115	\$55,545,434	\$21,176,879	\$49,832,171
Salaried officers.....	73,892,578	4,780,558	145,484	4,635,074	10,414,374	6,025,302	1,047,601	2,591,831	749,640	1,189,100
Manufacturing:										
Salaries.....	223,594,105	89,161,668	5,242,515	83,919,153	23,131,084	9,318,185	3,142,715	8,428,580	2,241,604	9,612,612
Wages.....	1,313,633,202	598,036,616	28,312,336	569,724,280	151,738,302	70,737,944	21,555,489	41,941,774	17,433,095	36,397,817
Distribution.....	69,266,585	7,499,648	133,753	7,365,895	5,319,909	1,920,797	575,484	2,205,011	618,617	1,659,586
Construction.....	13,071,813	9,347,506	662,412	8,685,094	611,135	189,599	86,698	325,960	14,878	985,117
Other.....	1,782,586	517,730	1,008	516,722	296,867	168,416	7,128	52,278	69,045	37,939
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	3,635,870,517	2,036,191,025	463,719,471	1,572,471,554	170,168,673	78,971,925	17,950,681	45,232,070	28,013,997	249,044,215
Materials, supplies, and containers.....	3,229,277,773	1,724,838,609	316,774,848	1,408,063,761	142,130,877	67,296,655	14,055,843	36,031,250	24,747,129	246,174,203
Fuel.....	316,196,243	271,489,834	145,500,186	125,989,648	16,489,596	7,548,003	2,773,387	3,717,140	2,451,066	1,321,195
Purchased electric energy.....	74,068,026	37,248,882	1,444,437	35,804,445	10,126,735	3,429,599	1,030,498	4,896,383	770,255	1,510,817
Contract work.....	16,328,475	2,613,700	2,613,700	2,613,700	1,421,465	697,668	90,953	587,297	45,547	38,000
Value of products.....	6,591,530,456	3,270,821,877	550,802,313	2,720,019,564	463,715,999	209,719,754	53,450,770	135,466,423	65,079,052	372,616,014
Value added by manufacture ⁷	2,955,659,939	1,234,630,852	87,082,842	1,147,548,010	203,547,326	130,747,829	35,500,089	90,234,353	37,065,055	123,571,799

ITEM	WIRE PRODUCTS				CUTLERY, TOOLS, AND HARDWARE				
	Total	1441	1442	1449	Total	1451	1452	1453	1454
Number of establishments ²	800	95	36	669	1,196	266	387	22	87
Proprietors and firm members.....	426	8	5	413	563	139	199	5	42
Persons reported by manufacturing industries, total ³	64,892	25,980	2,996	35,916	89,543	18,392	19,068	3,728	4,902
Salaried officers of corporations ⁴	937	159	64	714	1,579	340	457	27	97
Manufacturing:									
Salaried employees ⁵	6,364	2,921	264	3,179	8,757	1,469	2,129	343	509
Wage earners (average for the year) ⁶	54,870	21,969	2,515	30,386	73,664	15,399	15,343	3,205	4,072
Distribution.....	2,430	790	128	1,512	5,127	1,030	1,062	104	218
Construction.....	239	123	25	91	267	24	60	49	5
Other.....	52	18	34	149	130	11	11	1	7
Salaries and wages, total.....	\$93,299,661	\$40,382,370	\$3,850,716	\$49,066,575	\$120,376,443	\$24,138,126	\$26,626,381	\$4,908,816	\$7,097,396
Salaried officers.....	6,946,218	2,103,181	388,363	4,454,674	10,018,622	2,266,754	2,571,990	124,477	594,783
Manufacturing:									
Salaries.....	12,795,750	6,407,981	434,810	5,952,959	15,656,687	2,696,368	3,815,767	708,138	951,608
Wages.....	68,234,617	29,965,840	2,730,275	35,538,502	84,056,536	16,797,297	18,002,210	3,838,520	5,197,649
Distribution.....	4,919,069	1,708,970	268,025	2,942,074	9,997,394	2,102,156	2,118,540	165,664	344,509
Construction.....	344,013	176,651	29,243	138,119	383,262	31,700	107,514	72,017	6,655
Other.....	59,994	19,747	40,247	263,942	243,851	243,851	10,360	2,192	7,539
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	180,769,729	99,982,019	5,886,150	74,951,560	116,121,261	18,756,420	27,355,354	2,452,888	6,784,355
Materials, supplies, and containers.....	172,679,143	95,003,661	5,534,809	72,140,673	108,651,941	17,512,739	25,278,495	2,124,262	6,155,219
Fuel.....	3,293,808	2,241,650	116,288	935,870	3,552,908	532,813	1,003,857	228,868	289,009
Purchased electric energy.....	4,231,559	2,587,142	182,132	1,462,285	3,140,855	646,061	870,943	92,444	239,261
Contract work.....	565,219	149,566	2,921	412,732	775,562	64,807	202,059	7,314	100,866
Value of products.....	348,227,828	176,503,111	12,907,854	158,816,863	319,455,285	59,924,396	75,290,333	11,293,946	18,470,682
Value added by manufacture ⁷	167,458,099	76,521,092	7,071,704	83,865,303	203,334,024	41,167,976	47,934,979	8,841,058	11,686,327

See footnotes at end of table.

GENERAL STATISTICS IN DETAIL FOR THE GROUP, THE SUBGROUPS, AND FOR THE INDUSTRIES¹: 1939—Con.

ITEM	HEATING APPARATUS AND PLUMBERS' SUPPLIES							
	Total	1461	1462	1463	1464	1465	1466	1469
Number of establishments ²	1,673	259	130	448	68	449	181	138
Proprietors and firm members.....	552	74	32	199	10	148	29	60
Persons reported by manufacturing industries, total ³	149,596	28,498	2,723	25,509	10,024	50,984	27,931	3,927
Salaried officers of corporations ⁴	2,500	385	173	661	76	724	329	152
Manufacturing:								
Salaried employees ⁵	16,944	2,266	541	4,046	924	4,465	4,242	460
Wage earners (average for the year) ⁶	119,919	24,605	1,498	13,888	8,493	41,701	21,815	2,919
Distribution.....	9,798	1,186	501	1,882	521	3,861	1,466	381
Construction.....	187	50	21	10	10	75	27	4
Other.....	248	6	10	11	—	158	52	11
Salaries and wages, total.....	\$215,493,013	\$40,280,684	\$4,588,075	\$40,337,636	\$12,950,200	\$68,890,420	\$42,787,133	\$5,658,865
Salaried officers.....	14,625,631	2,470,465	791,146	3,277,693	399,699	4,730,289	2,268,760	681,579
Manufacturing:								
Salaries.....	31,359,489	4,350,741	863,141	7,923,343	1,677,972	7,913,661	7,856,327	769,304
Wages.....	149,088,405	30,768,552	1,893,283	25,298,161	9,921,515	48,069,160	29,629,764	3,507,970
Distribution.....	19,818,620	2,591,301	1,032,383	3,783,037	938,032	7,854,738	2,933,620	685,509
Construction.....	296,287	81,170	39,918	39,918	12,982	118,828	42,302	1,087
Other.....	304,581	12,455	8,122	10,484	—	203,744	56,360	13,416
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	294,670,442	52,630,117	10,272,883	70,654,747	17,165,268	97,475,213	37,667,330	8,804,884
Materials, supplies, and containers.....	276,003,685	48,409,592	10,082,182	66,685,297	15,718,041	91,222,399	35,376,169	8,500,005
Fuel.....	8,081,671	2,473,318	58,668	990,683	942,239	2,400,689	1,111,176	98,798
Purchased electric energy.....	6,089,824	1,269,232	75,977	1,401,592	498,706	1,671,091	983,421	129,805
Contract work.....	4,495,362	477,975	56,056	1,501,175	6,282	2,181,034	196,564	76,276
Value of products.....	686,126,176	125,578,189	18,468,017	140,959,533	45,377,801	223,427,130	111,985,627	20,329,879
Value added by manufacture ⁷	391,455,734	72,948,072	8,195,134	70,304,786	28,212,533	125,951,917	74,318,297	11,524,995

ITEM	METAL STAMPING, ENAMELING, GALVANIZING, JAPANNING, AND LACQUERING						FABRICATED STRUCTURAL STEEL AND ORNAMENTAL METAL WORK		
	Total	1471	1472	1473	1474	1475	Total	1481	1482
Number of establishments ²	963	55	90	655	80	83	1,343	1,138	205
Proprietors and firm members.....	420	2	21	281	66	50	633	560	73
Persons reported by manufacturing industries, total ³	65,505	12,480	10,081	39,362	2,123	1,459	55,228	44,800	10,428
Salaried officers of corporations ⁴	1,302	133	156	876	60	77	1,768	1,436	332
Manufacturing:									
Salaried employees ⁵	5,999	1,104	1,086	3,539	150	120	6,295	5,165	1,130
Wage earners (average for the year) ⁶	55,551	10,809	8,597	33,112	1,821	1,212	43,217	35,477	7,740
Distribution.....	2,423	394	205	1,708	69	47	3,773	2,601	1,172
Construction.....	171	39	33	90	6	3	140	88	52
Other.....	59	1	4	37	17	—	35	33	2
Salaries and wages, total.....	\$89,538,268	\$15,283,023	\$16,921,285	\$53,345,731	\$2,808,448	\$2,179,776	\$85,931,099	\$69,426,368	\$16,504,731
Salaried officers.....	8,073,226	1,046,636	1,112,268	5,109,281	295,638	509,403	8,160,962	6,335,877	1,825,085
Manufacturing:									
Salaries.....	11,219,443	1,942,413	2,170,984	6,569,051	293,539	243,456	12,165,307	10,168,515	1,996,792
Wages.....	64,352,261	11,441,682	11,970,203	37,535,454	2,062,275	1,342,647	58,080,834	47,549,506	10,531,328
Distribution.....	5,529,534	794,391	591,013	3,942,358	123,162	78,610	7,814,772	5,205,236	2,109,536
Construction.....	284,862	57,546	72,717	139,133	9,806	5,660	154,585	113,751	40,834
Other.....	78,942	360	4,100	50,454	24,028	—	54,639	53,483	1,156
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	136,284,024	20,348,180	21,826,766	89,140,826	2,455,622	2,512,630	191,474,644	172,437,165	10,037,479
Materials, supplies, and containers.....	128,590,568	18,446,541	20,631,552	85,222,454	2,016,480	2,273,541	185,747,942	167,783,521	17,964,421
Fuel.....	2,870,511	1,054,068	232,572	1,183,722	239,082	161,067	1,216,967	1,029,608	187,359
Purchased electric energy.....	3,282,565	702,768	551,122	1,798,306	162,939	67,430	2,300,109	1,952,758	347,351
Contract work.....	1,540,380	144,803	411,520	936,344	37,121	10,592	2,209,626	1,671,278	538,348
Value of products.....	283,598,572	44,239,055	47,833,155	178,395,076	6,935,646	6,195,640	332,888,761	284,669,659	48,219,102
Value added by manufacture ⁷	147,314,548	23,890,875	26,006,389	89,254,250	4,480,024	3,683,010	141,414,117	112,232,494	29,181,623

See footnotes at end of table.

GENERAL STATISTICS IN DETAIL FOR THE GROUP, THE SUBGROUPS, AND FOR THE INDUSTRIES¹: 1939—Con.

ITEM	MISCELLANEOUS IRON AND STEEL PRODUCTS									
	Total	1491	1492	1493	1494	1495	1496	1497	1498	1499
Number of establishments ²	955	155	207	49	53	345	64	23	16	43
Proprietors and firm members.....	296	30	40	8	12	182	8	7	6	3
Persons reported by manufacturing industries, total ³	90,066	17,107	18,043	9,670	3,591	20,300	6,964	6,061	1,558	6,772
Salaried officers of corporations ³	1,373	257	329	66	71	458	71	28	22	71
Manufacturing:										
Salaried employees ³	8,797	1,780	1,689	925	370	1,819	550	753	207	704
Wage earners (average for the year) ⁴	75,890	14,331	15,372	8,370	2,940	16,924	6,072	5,001	1,236	5,644
Distribution.....	3,415	718	474	265	197	991	260	157	84	269
Construction.....	473	16	131	30	8	94	11	113	3	67
Other.....	118	5	48	14	5	14	-----	9	6	17
Salaries and wages, total.....	\$139,914,817	\$25,475,667	\$30,123,958	\$15,794,293	\$5,738,797	\$30,800,223	\$9,544,686	\$8,806,827	\$2,285,911	\$11,344,455
Salaried officers.....	9,683,887	1,904,392	2,373,457	561,833	370,674	2,924,281	525,046	180,055	146,785	697,364
Manufacturing:										
Salaries.....	18,492,065	3,656,244	3,849,710	2,189,103	742,745	3,655,408	1,060,835	1,323,567	348,830	1,665,623
Wages.....	103,647,814	18,332,950	22,652,054	12,306,077	4,277,439	22,106,007	7,380,075	6,846,317	1,580,088	8,177,807
Distribution.....	7,208,053	1,545,581	1,012,614	645,250	321,107	1,990,162	581,041	270,888	190,846	652,564
Construction.....	715,046	31,748	179,814	54,102	20,746	107,251	17,689	175,030	5,299	123,267
Other.....	167,952	6,752	56,209	37,928	6,086	17,114	-----	10,970	5,063	27,830
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	261,146,504	38,708,570	51,973,575	41,856,222	12,795,702	32,649,213	32,328,346	3,052,556	2,413,251	45,369,069
Materials, supplies, and containers.....	244,460,805	36,214,766	46,244,315	39,705,426	12,033,716	29,986,563	31,662,936	2,554,540	2,275,394	48,783,149
Fuel.....	7,879,858	930,202	3,763,186	1,025,932	493,407	520,625	223,323	251,331	58,018	613,234
Purchased electric energy.....	6,136,080	937,773	1,419,432	743,671	267,369	1,194,135	384,712	184,591	58,646	946,351
Contract work.....	2,669,161	625,829	546,642	381,193	1,210	947,800	57,375	62,094	20,593	26,335
Value of products.....	514,079,944	84,117,869	104,883,196	75,864,616	23,044,252	82,806,869	49,165,973	17,711,651	6,084,319	70,401,099
Value added by manufacture ⁵	252,933,440	45,409,399	52,909,621	34,008,394	10,248,550	50,157,656	16,837,627	14,659,095	3,671,068	25,032,030

¹ The numbers at the head of each column represent the following industries:

- | | | |
|--|--|--|
| 1411. Blast-furnace products.
1412. Steel works and rolling mills.
1421. Gray-iron and semi-steel castings.
1422. Malleable-iron castings.
1423. Steel castings.
1424. Cast-iron pipe and fittings.
1430. Tin cans and other tinware not elsewhere classified.
1441. Wire drawn from purchased rods.
1442. Nails, spikes, etc., not made in wire mills or in plants operated in connection with rolling mills.
1449. Wirework not elsewhere classified.
1451. Cutlery (except aluminum, silver, and plated cutlery) and edge tools.
1452. Tools (except edge tools, machine tools, files and saws).
1453. Files.
1454. Saws.
1459. Hardware not elsewhere classified.
1461. Enamelled-iron sanitary ware and other plumbers' supplies (not including pipe and vitreous and semivitreous china sanitary ware). | 1462. Oil burners, domestic and industrial.
1463. Power boilers and associated products.
1464. Steam and hot-water heating apparatus (including hot-water furnaces).
1465. Stoves, ranges, water heaters, and hot-air furnaces (except electric).
1466. Steam fittings, regardless of material.
1469. Heating and cooking apparatus, except electric, not elsewhere classified.
1471. Vitreous enameled products, including kitchen, household, and hospital utensils.
1472. Automobile stampings.
1473. Stamped and pressed metal products (except automobile stampings).
1474. Enameling, japanning, and lacquering.
1475. Galvanizing and other coating—carried on in plants not operated in connection with rolling mills.
1481. Fabricated structural steel and ornamental metal work, made in plants not operated in connection with rolling mills. | 1482. Doors, window sash, frames, molding, and trim (made of metal).
1491. Bolts, nuts, washers, and rivets—made in plants not operated in connection with rolling mills.
1492. Forgings, iron and steel—made in plants not operated in connection with rolling mills.
1493. Wrought pipes, welded and heavy riveted—made in plants not operated in connection with rolling mills.
1494. Springs, steel (except wire)—made in plants not operated in connection with rolling mills.
1495. Screw-machine products and wood screws.
1496. Steel barrels, kegs, and drums.
1497. Firearms.
1498. Safes and vaults.
1499. Cold-rolled steel sheets and strip and cold-finished steel bars made in plants not operated in connection with hot-rolling mills. |
|--|--|--|

² See GENERAL EXPLANATIONS—Definition of establishment.³ See GENERAL EXPLANATIONS—Persons engaged—general classification.⁴ See GENERAL EXPLANATIONS—Wage earners and wages.⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

BLAST-FURNACE PRODUCTS

[A preliminary report for this industry was issued October 21, 1940]

Description of the industry.—This industry, as defined for census purposes, embraces establishments engaged in the manufacture, from ore and scrap, of pig iron, ferroalloys—spiegeleisen, ferromanganese, ferrophosphorus, ferrosilicon, etc.—and castings made direct from the furnace. (The manufacture of electric ferroalloys is included in the "Chemicals not elsewhere classified" industry.) In many cases blast furnaces are operated in conjunction with steel works, but for census purposes they are treated as separate establishments.

Active and idle furnaces.—As explained in the head-note to table 9, the statistics as to number and capacity of blast furnaces refer to all furnaces, including idle ones, in plants in which at least a part of the furnaces were in operation at some time within the census year. They do not, however, include data for plants in which no furnaces were in operation at any time within the census year. Thus the numbers of furnaces shown are somewhat larger than the numbers of active furnaces but are somewhat smaller than the total numbers of all furnaces, both active and idle, in existence.

Relation of blast-furnace products and steel-works and rolling-mills products.—More than 88 percent of the total pig-iron output of blast furnaces in 1939 was used as a material by steel mills. A large part of the pig iron is delivered, mostly in a molten state, to steel works operated in conjunction with the blast furnaces, but in such cases the two units are treated, for census purposes, as separate establishments. A transfer value is assigned, by the company reporting, to the pig iron

thus delivered, and this transfer value is included in the value of products for the blast furnaces and in the cost of materials for the steel works.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

(The figures for this industry include data for 2 independent sintering plants for 1939, 5 for 1937, 3 for 1935, 5 for 1933, and 4 for 1931. No corresponding data are included in the figures for years prior to 1931. The combined values reported by these plants for sintered ore, fine dust, and receipts for sintering were \$3,416,054 for 1937, \$754,242 for 1933, and \$1,565,268 for 1931. Corresponding data for 1939 and 1935 are withheld in order to avoid disclosing data reported by individual establishments)

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	81	19,537	\$28,312,336	\$463,719,471	\$550,802,313	\$87,082,842	⁵ 4,944,118
1937.....	87	23,075	38,001,438	544,880,977	672,525,407	127,644,430	(6)
1935.....	72	15,178	18,915,554	300,658,287	374,651,370	73,993,083	(7)
1933.....	72	12,098	11,563,675	183,956,580	213,685,290	29,728,710	(6)
1931.....	80	13,572	19,258,799	239,131,549	311,371,093	52,239,544	(6)
1929.....	105	24,960	41,958,569	610,298,691	771,425,464	161,131,773	⁵ 5,082,616
1927.....	116	27,958	44,258,499	579,555,036	708,904,238	129,349,202	⁵ 4,864,332
1925.....	122	29,188	45,312,168	617,416,880	765,286,229	147,869,349	⁵ 4,693,218
1923.....	169	36,712	58,935,384	827,629,665	1,007,613,340	179,983,675	(7)
1921.....	134	18,698	29,369,685	361,049,516	419,771,244	58,721,728	(6)
1919.....	209	43,296	76,445,616	644,021,264	824,383,203	180,361,939	⁵ 4,656,273
1914.....	160	29,356	22,780,626	264,580,060	317,653,983	53,073,923	⁵ 3,722,064
1909.....	208	38,429	24,606,530	320,637,889	391,429,283	70,791,394	⁵ 3,200,623
1904.....	190	35,078	18,984,513	178,941,918	231,822,707	52,880,789	⁵ 2,408,157
1899.....	223	39,241	18,484,400	131,503,655	206,756,557	75,252,902	⁵ 1,596,939

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Includes figures for the "Blast-furnace products" and "Steel works and rolling mills" industries and for the "Steel castings" industry for 1929 and prior years. Separate power figures for "Blast furnaces products" and for "Steel works and rolling mills" are not obtainable in all cases as some companies operating both blast furnaces and rolling mills operate a separate power plant for the two industries. The "Steel castings" industry was not a separate classification prior to 1939.

⁶ Not called for on schedule.

⁷ Data not available.

BLAST-FURNACE PRODUCTS

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TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Alabama	Illinois	Indiana	New York	Ohio	Pennsylvania	Other States
Number of establishments ²	81	7	4	3	6	23	23	15
Proprietors and firm members.....								
Persons reported by manufacturing establishments, total ³	22,027	2,393	2,003	1,863	1,397	5,445	6,238	2,687
Salaried officers of corporations ⁴	21				2	12	6	1
Manufacturing:								
Salaried employees ⁵	1,890	109	276	155	90	593	459	148
Wage earners (average for the year) ⁶	19,537	2,224	1,505	1,605	1,282	4,736	5,665	2,519
Distribution.....	31				22	2	4	3
Construction.....	546		222	103	1	102	102	16
Other.....	2						2	
Salaries and wages, total ⁷	\$34,497,508	\$3,045,003	\$3,161,683	\$3,244,522	\$2,461,692	\$9,051,954	\$9,317,779	\$4,214,875
Salaried officers ⁸	145,484				30,000	78,303	33,181	4,000
Manufacturing:								
Salaries ⁹	5,242,515	869,080	752,675	415,790	298,311	1,638,705	1,301,880	466,074
Wages.....	28,312,336	2,675,923	2,175,992	2,708,212	2,029,573	7,212,408	7,863,588	3,646,640
Distribution.....	133,753				102,585	5,596	12,372	13,200
Construction.....	602,412		233,016	120,520	1,223	116,942	105,730	84,961
Other.....	1,008						1,008	
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	463,719,471	28,177,163	40,415,927	46,372,949	27,778,618	111,416,634	145,692,631	63,865,549
Materials and supplies ¹⁰	316,774,848	18,736,513	23,683,978	28,411,314	17,314,869	77,255,527	108,136,864	43,235,783
Fuel ¹¹	145,500,186	9,322,179	16,531,321	17,919,186	10,149,102	33,839,731	37,374,205	20,364,462
Purchased electric energy.....	1,444,437	118,471	200,628	42,449	314,047	321,376	181,502	265,304
Contract work.....								
Value of products.....	550,802,313	37,085,389	46,707,305	51,935,042	36,890,837	131,824,375	174,339,654	72,019,711
Value added by manufacture ¹²	87,082,842	8,908,226	6,291,378	5,592,093	9,112,219	20,407,741	28,647,023	8,154,162

¹ Colorado, 1 establishment; Kentucky, 1; Maryland, 1; Massachusetts, 1; Michigan, 4; Minnesota, 2; Tennessee, 1; Utah, 1; Virginia, 1; West Virginia, 2.² See GENERAL EXPLANATIONS—Definition of establishment.³ See GENERAL EXPLANATIONS—Persons engaged—general classification.⁴ See GENERAL EXPLANATIONS—Wage earners and wages.⁵ See GENERAL EXPLANATIONS—Wage earners and wages.⁶ Cost of coke, used as a material, is included in cost of "Fuel" for census purposes.⁷ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Total value.....	\$550,802,313	\$672,525,407	\$771,425,464
Blast-furnace products.....	543,800,263	665,699,167	766,069,864
Sintered ore and flue dust, value, and receipts for tonnage sintered on custom basis (see headnote, table 1).....		3,416,054	(?)
Other products, value, and receipts from sale of electric energy.....	17,002,050	3,410,186	5,355,600

¹ Combined to avoid disclosing, exactly or approximately, production reported by individual establishments.² No corresponding data are included in the figures for 1929.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939	1937	1929
Total value.....	\$543,800,263	\$665,699,167	\$766,069,864
Pig iron (including ferroalloys):			
Total tons (2,240 pounds).....	31,518,095	36,770,313	42,486,758
Total value.....	\$521,207,962	\$642,719,198	\$744,588,193
For consumption in other plants of same company or affiliated companies—			
Tons.....	27,357,271	30,032,123	32,582,807
Assigned value.....	\$433,292,717	\$497,215,065	\$543,722,095
For sale—			
Tons.....	4,160,824	6,738,190	9,903,951
Value.....	\$87,915,245	\$145,504,133	\$200,866,098
Blast-furnace gas used as fuel, coal equivalent, total tons (2,000 pounds).....	11,476,377	12,592,364	13,927,228
Consumed by blast-furnace departments, tons.....	4,659,092	6,072,047	8,190,550
Transferred to steel mills and other plants:			
Tons.....	16,817,285	6,520,317	5,736,678
Assigned value.....	\$21,088,698	\$21,662,118	\$19,019,252
Slag (granulated, for roofing, paving, etc.), value.....	\$1,503,603	\$1,317,851	\$2,462,410

¹ Includes a small amount (less than 2 percent of the value) produced for sale.

TABLE 5.—PIG IRON AND FERROALLOYS MADE IN BLAST FURNACES—PRODUCTION, BY GRADE, SMELTING FUEL, AND METHOD OF DELIVERY OR CASTING: 1939, 1937, AND 1929

	1939	1937	1929
Total tons (2,240 pounds).....	31,518,095	36,770,313	42,486,758
Classified by grade:			
Basic, total.....	22,792,395	25,112,653	25,065,384
Made for consumption in other plants of same company.....	21,991,778	23,408,545	22,384,938
Made for sale.....	800,617	1,704,108	2,680,446
Bessemer, total.....	4,886,412	5,586,508	9,463,782
Made for consumption.....	4,796,833	5,422,496	9,131,242
Made for sale.....	89,579	164,012	332,540
Foundry, total.....	1,680,194	2,761,212	4,358,228
Made for consumption.....	122,171	349,409	395,639
Made for sale.....	1,558,023	2,411,803	3,962,589
Malleable, total.....	1,349,389	2,290,358	2,349,937
Made for consumption.....	114,569	301,483	274,325
Made for sale.....	1,234,820	1,988,875	2,075,612
Low-phosphorus, forged or mill, and miscellaneous, made for consumption and for sale.....	248,552	353,490	562,355
Ferroalloys made in blast furnaces for consumption and for sale ¹	525,416	629,334	648,132
Direct castings, made for consumption and for sale.....	35,737	36,752	38,940
Classified by smelting fuel:			
Coke.....			
Total tons (2,240 pounds).....	31,474,062	36,688,815	42,361,895
For consumption in other plants of same company and affiliated companies.....	27,357,271	30,032,123	32,582,727
For sale ²	4,116,791	6,656,692	9,779,168
Total value.....	\$520,164,517	\$640,904,093	\$741,632,459
Charcoal.....			
Tons.....	44,033	81,498	124,863
Value.....	\$1,043,445	\$1,815,105	\$2,955,734
Classified by method of delivery or casting, tons (2,240 pounds):			
Delivered molten to steel works, etc. Machine-cast.....	25,123,491	26,124,338	29,463,804
Chill-cast.....	6,030,320	10,119,160	11,332,479
Sand-cast.....	199,716	306,756	472,354
Direct castings made in blast furnaces.....	128,831	183,307	1,179,181
	35,737	36,752	38,940

¹ For total production of ferroalloys, by kind, made in blast furnaces and electric furnaces, see table 7.² Figures include data for a small tonnage produced by a combination of coke and coal.

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TABLE 6.—PIG IRON PRODUCTION BY STATES: 1939, 1937, AND 1929

[No figures are included for ferroalloys produced by the electric-furnace process.]

STATE	Census year	Number of active furnaces	PRODUCTION			Value
			Tons (2,240 pounds)	Percent of total	Rank based on tonnage	
United States.....	1939	200	31,518,095	100.0	-----	\$521,207,962
	1937	207	36,770,313	100.0	-----	642,710,198
	1929	244	42,486,758	100.0	-----	744,588,193
Pennsylvania.....	1939	68	9,001,765	28.6	1	165,961,823
	1937	69	11,768,064	32.0	1	220,194,423
	1929	86	14,535,823	34.2	1	274,984,467
Ohio.....	1939	44	7,323,091	23.2	2	125,541,560
	1937	45	8,084,623	22.0	2	148,618,723
	1929	49	9,797,488	23.1	2	166,488,158
Indiana.....	1939	17	3,309,904	10.5	3	47,539,685
	1937	16	3,773,887	10.3	3	56,683,721
	1929	16	4,277,759	10.0	4	71,381,263
Alabama.....	1939	18	2,652,202	8.4	4	33,907,203
	1937	18	2,597,633	7.1	6	38,120,773
	1929	21	2,705,923	6.4	6	34,562,105
Illinois.....	1939	15	2,611,369	8.3	5	44,807,769
	1937	17	3,393,028	9.2	4	60,712,242
	1929	21	4,357,905	10.2	3	79,191,226
New York.....	1939	11	2,083,701	6.6	6	35,209,736
	1937	14	2,762,078	7.5	5	47,218,978
	1929	17	2,707,315	6.4	5	44,698,716
Other States.....	1939	27	4,536,063	14.4	-----	68,240,186
	1937	28	4,391,000	11.9	-----	71,170,338
	1929	34	4,104,545	9.7	-----	73,282,258

¹ Colorado, 3 furnaces; Kentucky, 2; Maryland, 6; Massachusetts, 1; Michigan, 7; Minnesota, 2; Tennessee, 1; Utah, 1; Virginia, 1; West Virginia, 3.

TABLE 7.—FERROALLOYS—PRODUCTION IN BLAST FURNACES AND ELECTRIC FURNACES, BY KIND, QUANTITY, AND VALUE: 1939, 1937, AND 1929

[Tons, 2,240 pounds]

	1939	1937	1929
Total:			
Number of establishments.....	36	33	31
Tons.....	783,615	981,652	868,543
Value.....	\$63,738,319	\$82,642,123	\$70,261,266
Classified as made in blast furnaces or in electric furnaces			
Made in blast furnaces ¹ :			
Number of establishments.....	13	11	12
Tons.....	525,416	629,334	648,132
Value.....	\$28,535,503	\$37,346,845	\$41,605,819
Made in electric furnaces:			
Number of establishments.....	23	22	19
Tons.....	258,199	352,318	220,411
Value.....	\$35,202,816	\$45,295,278	\$28,655,447
Classified by kind			
Ferromanganese and spiegeleisen:			
Number of establishments.....	12	9	9
Tons.....	412,612	522,093	477,854
Value.....	\$27,545,156	\$36,950,540	\$36,978,426
Ferrosilicon:			
Number of establishments.....	13	13	12
Tons.....	293,631	314,866	328,095
Value.....	\$13,217,516	\$16,042,138	\$15,712,522
Ferrophosphorus:			
Number of establishments.....	4	4	4
Tons.....	20,451	20,451	12,170
Value.....	\$1,305,501	\$1,305,501	\$1,312,025
Other ferroalloys ² :			
Number of establishments.....	77,372	17	14
Tons.....	\$22,975,647	124,242	50,424
Value.....		\$28,343,854	\$16,258,293

¹ Includes tonnage and assigned value of that produced for consumption in other plants of same or affiliated companies.

² Includes ferrochrome, ferromolybdenum, ferrotitanium, ferrotungsten, ferrovanadium, etc. Separate figures for this group are withheld in order to avoid disclosing data reported by individual companies.

TABLE 8.—PRINCIPAL MATERIALS CONSUMED, IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939, 1937, AND 1929

KIND	1939			1937			1929		
	Number of establishments ¹	Quantity	Cost	Number of establishments ¹	Quantity	Cost	Number of establishments ¹	Quantity	Cost
Iron ore (other than manganese).....	77	Tons (2,240 lbs.) 51,446,701	\$238,308,688	81	Tons (2,240 lbs.) 63,503,232	\$299,097,197	104	Tons (2,240 lbs.) 76,062,195	\$354,193,484
Manganese ore.....	32	722,851	12,114,936		(2)	(2)		(2)	(2)
Purchased sintered ore and flue dust.....	32	2,417,352	12,027,161		(2)	(2)		(2)	(2)
Scrap (iron and steel) purchased, or transferred from other plants under same ownership.....	67	2,392,412	13,310,795	73	³ 1,503,063	18,409,756	82	5,673,176	32,744,377
Cinder and scale.....		(2)	(2)	63	³ 4,150,908	8,279,732		(2)	(2)
Limestone.....	74	Tons (2,000 lbs.) 10,275,588	13,955,822	77	Tons (2,000 lbs.) 12,510,378	16,477,941	98	Tons (2,000 lbs.) 14,499,331	21,799,283
Dolomite.....	38	1,860,230	2,546,189	42	1,896,384	2,487,750	37	1,416,714	1,828,627

¹ In addition, one establishment used manganese-zinc residuum instead of iron ore.

² Not called for on schedule.

³ Figures for 1937 are not strictly comparable with those for 1939 and 1929 because of the fact that the schedule for 1937 called for separate data on cinder and scale and scrap iron and steel, while the 1939 and 1929 schedules did not call for cinder and scale. It is thought probable that a considerable number of manufacturers included the quantity and cost of scale with that reported for scrap iron and steel for 1939 and 1929.

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TABLE 9.—BLAST FURNACES REPORTED BY ACTIVE ESTABLISHMENTS—NUMBER AND CAPACITY, BY CAPACITY GROUPS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND NUMBER, BY CAPACITY GROUPS, BY STATES, 1939

[This table covers all furnaces, both active and idle, in plants in which any furnaces were operated during any part of the year]

	TOTAL ¹		Active within the year	Idle through-out year ²	DAILY CAPACITY IN TONS (2,240 POUNDS) OF FIG IRON							
	Number	Daily capacity, tons			Less than 400	400 to 499	500 to 599	600 to 699	700 to 799	800 to 899	900 to 999	1,000 and over
	NUMBER											
United States:	223	-----	200	23	24	22	28	61	38	18	11	20 [*]
1939-----	225	-----	207	18	25	21	30	61	42	21	25	-----
1937-----	273	-----	244	29	50	39	52	70	41	21		
1929-----	CAPACITY											
	144,495	130,874	13,621	5,965	9,800	15,487	38,691	28,047	15,191	10,325	20,989	
1939-----	142,101	131,086	11,015	5,993	9,144	15,885	38,558	30,700	17,306	24,615		
1937-----	148,274	133,982	14,292	11,645	16,926	27,311	44,253	29,669	18,470			
1929-----	NUMBER AND CAPACITY											
	18	8,801	18	-----	1,660	2,186	1,557	1,998	1,400	-----	-----	-----
Alabama-----	19	13,495	15	4	-----	894	1,160	4,302	1,524	2,558	997	2,060
Illinois-----	19	15,640	17	2	-----	-----	-----	1,945	6,750	1,745	-----	5,200
Indiana-----	14	8,770	11	3	-----	1,660	1,080	1,850	780	2,460	-----	1,000
New York-----	48	31,765	44	4	897	1,750	2,702	11,401	5,824	4,169	1,882	3,140
Ohio-----	78	50,711	68	10	2,062	1,917	6,928	13,363	11,769	4,269	2,814	7,589
Pennsylvania-----	27	15,313	27	-----	1,346	1,393	2,110	3,832	-----	-----	4,632	2,000
Other States-----												

¹ Two new stacks with a total daily capacity of 2,000 tons were completed between Dec. 31, 1937, and Dec. 31, 1939.² Not including furnaces in plants in which no furnaces were in operation at any time within the year. (See headnote.)**TABLE 10.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939**

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH--											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	19,537	17,472	17,609	17,863	17,614	16,478	17,735	18,142	18,635	20,880	24,007	24,099	23,907
1937	23,075	21,033	21,630	22,506	23,603	24,658	22,992	25,041	25,355	25,191	24,323	21,785	18,884
1929	24,960	24,929	24,697	24,649	24,823	25,304	25,327	25,360	25,415	25,104	25,910	24,785	23,271
Alabama	2,224	2,089	2,165	2,172	2,259	2,049	2,111	2,160	2,155	2,307	2,405	2,396	2,424
Illinois	1,505	1,550	1,546	1,553	1,417	1,425	1,394	1,204	1,211	1,497	1,830	1,725	1,708
Indiana	1,005	1,305	1,279	1,341	1,288	1,389	1,543	1,551	1,611	1,828	2,051	2,021	2,049
Michigan	1,870	853	791	790	822	754	826	851	873	914	988	983	985
New York	1,282	1,178	1,133	1,123	1,163	1,124	1,222	1,231	1,278	1,377	1,511	1,535	1,514
Ohio	4,736	4,407	4,435	4,355	4,126	3,711	4,184	4,396	4,630	5,038	5,947	5,903	5,699
Pennsylvania	5,665	4,794	4,796	5,028	5,063	4,567	4,794	5,047	5,180	6,084	7,347	7,637	7,643

TABLE 11.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	81
Reporting expenditures for plant and equipment	59
Value of products:	
Total for the industry	\$550,802,313
Reporting expenditures for plant and equipment	438,042,834
Expenditures for plant and equipment:	
Total for the industry	4,728,098
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	1,870,995
Expenditures for new machinery and operating equipment	2,574,543
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	282,560

TABLE 12.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$167,436,673	\$118,119,180
Finished products	53,597,919	28,224,444
Materials, supplies, etc.	113,838,754	89,894,736
End of year, total	154,733,680	170,375,129
Finished products	32,734,497	46,427,947
Materials, supplies, etc.	121,999,183	123,947,182
Value of products for the industry, total	550,802,313	672,525,407
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	399,842,554	559,684,489
Value for establishments not reporting inventories	150,959,759	112,840,918

¹ Practically all of the companies which did not report separate inventories for their "Blast-furnace products" department stated that the inventories were included with the inventories reported for their "Steel works and rolling mills" department

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TABLE 13.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929¹

[The figures in this table cover the "Blast-furnace products" and "Steel works and rolling mills" industries. The figures for "Steel castings" industry are not included]

	1939	1929 ²		1939	1929 ²
Number of establishments.....	334	423	Prime movers—Continued.		
Number of establishments reporting power equipment.....	325	423	Prime movers not driving generators, ordinarily idle (included above), horsepower.....	153,543	(⁶)
Prime movers, aggregate:			Generators, kilowatt rating, total.....	1,674,242	1,627,769
Number.....	3,475	4,989	Generators, driven by—		
Horsepower.....	4,944,118	5,031,790	Steam engines, kilowatt rating.....	101,649	(5)
Prime movers, driving generators, total—			Steam turbines, kilowatt rating.....	1,341,366	
Number.....	649	4,989	Diesel and semi-Diesel engines, kilowatt rating.....	4,820	
Horsepower.....	2,414,943	5,031,790	Other internal-combustion engines, ⁴ kilowatt rating.....	225,532	
Steam engines—			Hydroturbines and water wheels, kilowatt rating.....	875	
Number.....	213	3,588	Generators, ordinarily idle (included above), kilowatt rating.....	131,001	(5)
Horsepower.....	149,423	2,397,095	Electric motors, total:		
Steam turbines—			Number.....	232,862	158,440
Number.....	279	1,122	Horsepower.....	9,346,463	6,167,517
Horsepower.....	1,923,998	2,043,092	Driven by purchased energy—		
Diesel and semi-Diesel engines—			Number.....	114,960	56,104
Number.....	23	247	Horsepower.....	4,606,359	2,337,218
Horsepower.....	6,965	585,558	Driven by energy generated in establishments reporting—		
Other internal-combustion engines ⁴ —			Number.....	117,902	102,336
Number.....	129	34	Horsepower.....	4,740,104	3,880,299
Horsepower.....	333,406	6,045	Electric energy (kilowatt-hours) ⁷ :		
Hydroturbines and water wheels—			Generated in plant.....	5,680,080,722	(5)
Number.....	5		Sold.....	1,349,587,089	(5)
Horsepower.....	1,181		Purchased.....	5,116,980,842	3,259,340,731
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	192,084				
Prime movers not driving generators, total—					
Number.....	2,826				
Horsepower.....	2,529,175				
Steam engines—					
Number.....	1,678				
Horsepower.....	1,524,848	(5)			
Steam turbines—					
Number.....	971				
Horsepower.....	768,984				
Diesel and semi-Diesel engines—					
Number.....	4				
Horsepower.....	498				
Other internal-combustion engines ⁴ —					
Number.....	165				
Horsepower.....	233,710				
Hydroturbines and water wheels—					
Number.....	8				
Horsepower.....	1,135				

¹ Because of the close relationship of the "Blast-furnace products" and "Steel works and rolling mills" industries and particularly because of the fact that in many cases the power for blast furnaces and steel works and rolling mills operated under a common ownership is generated in a separate power plant under the same ownership, it is impossible to obtain complete separate data for the power equipment used in each industry.

² Adjusted to make the figures comparable with 1939 by taking out estimated figures for the "Steel castings" industry.

³ Includes data for prime movers not driving generators.

⁴ Gas, gasoline, etc.

⁵ Not called for on schedule.

⁶ Data not available.

⁷ Considerable quantities of electric energy are consumed for other purposes than power (melting, heat treating, etc.).

⁸ Includes sales of one plant or department to another within the two industries.

STEEL WORKS AND ROLLING MILLS

[A preliminary report for this industry was issued November 8, 1940]

Description of the industry.—This industry consists in the conversion of pig iron and scrap into steel and the rolling of iron and steel. In many cases the processes of conversion and rolling (and in some cases further fabrication) are performed in the same plants, and in such cases the value of products represents only the finished products. For censuses prior to 1939, the production of steel castings was treated as part of the "Steel works and rolling mills" industry, but for 1939, "Steel castings" was set up as a separate industry. A special tabulation of the 1937 and 1929 figures was prepared to show comparable figures. Statistics on the total production of steel castings will be found in a report entitled "Iron and steel foundry products."

Some steel plants, however, produce crude steel or partly rolled steel, which is used as a material by other steel plants, and this causes some degree of duplication in the figures for value of products and cost of materials. The amount of duplication in the total value of products for the industry cannot be accurately determined, but it is equal to the sum of (1) the major part of the value (\$272,467,476) of the ingots and semifinished rolled products (except for forgings) made for sale and for transfer to other plants operated under the same ownership or by affiliated companies and (2) a considerable but indeterminable part of the value (\$204,491,714) of the "interplant transfers" of direct steel castings, forgings, and finished rolled products made in certain plants and transferred to other plants, operated under the same ownership or by affiliated companies, for use as materials in further manufacture. All but a small portion of the ingots and semifinished rolled products manufactured for sale and for interplant transfer, and to a large extent the steel castings, forgings, and finished rolled products transferred to other plants, are used as materials within the industry, and therefore their values are again included in the total value of finished products. The tonnage produced and consumed in different departments of the same plant does not carry an assigned value, so no duplication arises from this source.

In many establishments the manufacturing processes are carried beyond the rolling stage. For example: Tin-dipping departments are operated by some of the

black-plate rolling mills, pipe-and-tube departments by skelp mills, and wire-drawing departments by wire-rod mills. For this reason the industry overlaps a number of others and the products include certain commodities identical in character with the primary products of other industries. (See "Tin plate and terneplate," p. 195, the table "Principal manufactures from rolling-mill products," p. 189, and the report for "Wire drawn from purchased rods," p. 213.)

A large part of the pig iron used as a material by steel works is delivered, mostly in a molten state, by blast furnaces operated in conjunction with the steel works. (See "Relation of blast-furnace products and steel works and rolling mills products," p. 180.)

Detailed statistics of products.—Statistics relating to individual products or classes of products are given in tables 3 to 9, inclusive. The presentation in table 3 is made under eight general headings, namely: Unrolled steel; semifinished rolled products; finished hot-rolled products and forgings; scrap iron and steel; cinder and scale; miscellaneous products other than iron or steel; custom work and repairing; products further manufactured from finished rolling-mill and foundry products.

Table 3 has been prepared in such form as to show separately the tonnage produced and consumed in the same works, the tonnage produced and transferred to other plants under the same ownership or to plants operated by affiliated companies, and the tonnage produced for sale. The tonnage transferred to other plants carries an assigned value, but no value is assigned to the tonnage produced and consumed in different departments of the same works.

In many cases rolling mills operate departments for the conversion of rolling-mill products into pipes and tubes, bolts and nuts, cut nails and spikes, and other finished iron and steel products. These products, when manufactured in plants other than departments of rolling mills, although in some cases under the same ownership, are classified in other industries. The total output of these products, by kind, quantity, and value, as reported for all industries, is shown, so far as practicable, in table 4, p. 189.

Tin plate and terneplate are manufactured almost exclusively and wire and wire products are made to a

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considerable extent in departments operated in connection with rolling mills. Statistics showing the total production of wire and wire products made both in wire departments of rolling mills and in establishments covered by separate industry classifications, will be found in a report covering the Wire Products subgroup of industries. For production of tin plate and terneplate, see page 195.

The schedule form used in canvassing the establishments in the "Steel works and rolling mills" industry called for tonnage units of 2,240 pounds while certain trade organizations collecting similar data reported tonnage in units of 2,000 pounds.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939, 1937, AND 1929¹

CENSUS YEAR	Number of establishments ²	Wage earners (average for the year) ³	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ⁴	Value of products	Value added by manufacture ⁵	Horse-power of prime movers ⁶
1939----	253	368,904	\$569,724,280	\$1,572,471,554	\$2,720,019,564	\$1,147,548,010	4,944,118
1937----	265	438,043	717,425,113	1,769,948,930	3,146,263,440	1,378,314,460	(7)
1929----	318	354,877	622,556,051	1,841,020,213	3,160,438,671	1,319,418,458	5,031,790

¹ No comparable figures for other years.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Wage earners and wages.

⁴ Figures for 1929 do not include cost of contract work.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁶ Includes power equipment for the "Blast-furnace products" industry.

⁷ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Indiana	Michigan	New Jersey	New York	Ohio	Pennsylvania	West Virginia	Other States ¹
Number of establishments ²	253	22	9	8	6	15	46	91	11	45
Proprietors and firm members.....	1						1			
Persons reported by manufacturing establishments, total ³	413,280	29,266	42,362	10,732	7,477	18,926	78,789	150,604	14,577	60,446
Salaried officers of corporations ⁴	384	27	10	21	10	24	34	170	5	83
Manufacturing:.....										
Salaried employees ⁴	34,149	3,019	4,965	614	516	1,791	5,733	12,697	658	4,156
Wage earners (average for the year) ⁴	368,904	25,079	36,319	9,851	6,924	16,353	71,906	134,477	13,002	54,992
Distribution.....	2,942	420	160	216	27	240	93	1,177	24	585
Construction.....	6,576	742	847	20		488	1,021	2,040	864	545
Other.....	325	79	61	1		30	2	43	24	85
Salaries and wages, total ⁵	\$674,846,218	\$51,417,471	\$71,487,323	\$19,066,390	\$11,291,707	\$30,684,495	\$134,253,945	\$238,935,177	\$21,518,465	\$96,161,245
Salaried officers ⁴	4,635,074	450,352	193,392	235,366	106,855	177,022	257,321	2,132,814	93,835	988,117
Manufacturing:.....										
Salaries ⁴	83,919,153	7,865,447	11,837,778	1,815,522	1,036,289	3,966,443	14,316,527	31,461,219	1,612,962	10,006,966
Wages ⁴	569,724,280	40,843,465	57,731,907	16,150,449	10,082,711	25,682,889	117,954,749	199,562,752	18,772,508	82,893,350
Distribution.....	7,365,895	983,354	378,385	719,196	65,852	479,469	275,814	3,114,269	61,180	1,288,376
Construction.....	8,685,094	1,178,239	1,248,620	134,603		326,980	1,444,952	2,618,170	936,403	797,127
Other.....	516,722	96,614	97,241	1,254		42,192	4,582	45,953	41,577	187,309
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	1,572,471,554	128,695,745	165,756,215	56,797,608	12,852,303	54,837,780	395,174,452	506,214,361	46,419,133	205,723,957
Materials and supplies.....	1,408,063,761	117,200,052	146,494,625	50,058,077	10,829,028	46,193,293	362,268,763	451,803,602	42,236,534	180,979,787
Fuel.....	125,989,648	8,892,536	15,908,113	4,488,855	1,150,577	6,425,772	25,571,790	42,063,718	3,784,392	17,663,595
Purchased electric energy.....	35,804,445	2,524,149	3,348,286	2,138,305	771,080	2,218,715	7,172,204	10,743,705	398,207	6,489,794
Contract work.....	2,613,700	78,708	5,191	112,371	61,618		161,695	1,603,336		590,781
Value of products.....	2,720,019,564	207,301,815	301,268,709	99,939,525	28,404,351	111,546,260	600,804,548	886,313,248	79,794,862	395,646,246
Value added by manufacture ⁵	1,147,548,010	78,606,070	135,512,494	43,141,917	15,552,048	56,708,480	214,630,066	380,098,887	33,375,729	189,922,259

¹ Alabama, 9 establishments; California, 7; Colorado, 1; Connecticut, 1; Delaware, 1; Georgia, 1; Kentucky, 3; Maryland, 4; Massachusetts, 4; Minnesota, 1; Missouri, 3; Oklahoma, 1; Rhode Island, 1; Tennessee, 1; Texas, 1; Virginia, 2; Washington, 2; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—PRODUCTS, BY CLASS, KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929
 [See "Description of the industry," p. 185. The term "interplant transfer" refers to transfer of the products of one plant for use as materials in another plant operated under the same or affiliated ownership]

	1939			1937			1929		
	Number of establishments	Tons (2,240 pounds)	Value	Number of establishments	Tons (2,240 pounds)	Value	Number of establishments	Tons (2,240 pounds)	Value
Steel works and rolling-mill products, aggregate value.....			\$2,720,019,564			\$3,146,263,440			\$3,160,438,671
Unrolled steel, total.....	147	787,610		151	682,080		156	248,213	
Open-hearth:									
Basic.....	42	916,773		46	211,673		47	141,354	
Acid.....		591,196			775,461			1,086,033	
Bessemer, including all converters.....	3	098,671		3	478,800		7	109,923	
Electric or electrically refined and crucible.....	1	176,910		1	189,546			813,373	
Process not reported by kind.....		4,060			25,600			87,530	
Ingots, total.....	47	053,931		50	432,916		54	793,683	
Made for sale.....		120,586	6,257,237		190,598	8,734,116		195,634	6,239,183
Interplant transfers.....		290,555	7,725,050		452,179	12,398,196		465,309	10,910,385
Produced and consumed in the same works.....	46	642,790		49	790,139		54	132,740	
Direct steel castings (made in departments of steel works and rolling mills), total ²		152,308			293,743			230,392	
Made for sale.....		51,215	10,070,818		165,147	28,273,685		116,764	15,043,619
Interplant transfers.....		30,846	4,613,408		32,816	4,652,378			
Produced and consumed in the same works.....		70,247			95,780			113,628	
Semifinished rolled products, total.....	39	221,831		43	400,875		48	528,607	
Made for sale.....		2,685,306	96,737,596		3,110,490	121,570,297		6,714,525	235,550,793
Interplant transfers.....		6,226,316	176,845,129		7,203,825	214,936,328		6,064,635	185,776,910
Produced and consumed in the same works.....	30	310,209		33	176,560		35	740,447	
Blooms, billets, and slabs (except for forging), total.....	35	175,389		37	112,809		38	819,107	
Made for sale.....		1,614,020	60,149,742		1,906,136	77,121,815		2,727,604	100,373,379
Interplant transfers.....		5,480,899	155,202,843		5,410,592	164,468,171		4,633,624	144,418,740
Produced and consumed in the same works.....	28	080,470		29	796,081		31	457,870	
Rolled blooms and billets for forging, total.....		603,087			403,048			657,808	
Made for sale and for interplant transfer.....		347,623	15,097,536		333,812	15,304,185		269,675	10,326,862
Produced and consumed in the same works.....		255,464			74,236			388,133	
Sheet and tin-plate bars, total.....		3,328,537			5,843,543			8,710,921	
Made for sale.....		746,028	22,248,235		894,266	30,328,948		3,751,311	125,657,607
Interplant transfers.....		717,744	20,597,929		1,747,396	48,260,959		1,310,421	36,658,608
Produced and consumed in the same works.....		1,864,765			3,201,881			3,649,189	
Muck and scrap bars, total.....		114,818			126,475			340,771	
Made for sale and for interplant transfer.....		5,308	286,440		22,113	1,022,547		86,525	3,892,607
Produced and consumed in the same works.....		109,510			104,362			254,246	
Finished hot-rolled products and forgings, total ³	35	717,704		37	316,326		39	882,941	
Made for sale and for interplant transfer, total.....	22	921,068	1,239,146,263	25	153,567	1,429,395,378	30	350,271	1,604,832,959
Made for sale.....	18	467,161	1,039,267,957	21	074,196	1,241,914,694	27	261,988	1,451,841,437
Interplant transfers.....	4	453,907	199,878,306	4	079,371	187,480,684	3	088,283	152,991,522
Produced and consumed in the same works.....	12	796,636		12	162,759		9	532,670	
Pierced billets, rounds, and blanks, for seamless pipes and tubes, total ³	24	2,160,278		22	2,218,810		(4)	(4)	(4)
Made for sale and interplant transfer.....		597,627	23,119,518		534,292	24,807,581			
Produced and consumed in the same works.....		1,562,651			1,684,518				
Rails made for sale and for interplant transfer.....	13			14	1,408,160	53,716,019	17	2,066,208	113,924,509
Rolled or renewed rails (not including rails re-rolled by makers of ingots from new seconds), made for sale and for interplant transfer.....	4	1,175,243	48,161,910	4	32,164	1,354,519	7	56,830	1,932,790
Rail joints and fastenings, tie plates, etc., made for sale and for interplant transfer.....	27	461,982	25,159,082	28	459,966	23,750,579	30	872,349	47,760,823
Structural shapes (not assembled or fabricated), total.....	58	2,923,847		58	3,315,515		42	4,628,234	
Heavy (leg or web 3 inches and over), made for sale and for interplant transfer.....		2,245,455	103,396,315		2,392,966	110,873,129		3,861,837	161,561,642
Light (leg or web less than 3 inches):									
Made for sale.....		390,300	19,700,097		645,399	34,130,777		608,125	27,336,049
Interplant transfers.....		27,163	1,420,343		76,430	3,627,052			
Heavy and light produced and consumed in the same works.....		260,929			200,720			156,272	
Concrete-reinforcing bars (including twisted bars), made for sale and for interplant transfer.....	57	1,094,115	44,660,926	58	814,191	36,780,673	57	972,053	42,416,829
Merchant bars, mill shafting, etc., total.....	112	4,197,437		106	4,895,441		120	6,874,440	
Steel bars, total.....		4,143,231			4,822,936			6,676,166	
Carbon steel:									
Made for sale.....		2,508,530	133,597,653						
Interplant transfers.....		539,233	26,597,942						
Produced and consumed in the same works.....		218,627			4,370,391	286,840,089		6,228,174	358,600,813
Alloy steel (other than stainless):					7	434,252		7	447,992
Made for sale.....		671,997	73,175,903						
Interplant transfers.....		99,651	8,476,987						
Produced and consumed in the same works.....		84,990							
Stainless steel made for sale and for interplant transfer.....		20,303	10,528,093		18,293	8,196,431		(9)	(9)
Iron bars, total.....		54,206			72,505			198,274	
Made for sale and for interplant transfer.....		53,240	4,995,053		70,932	6,576,847		187,076	13,283,853
Produced and consumed in the same works.....		966			1,573			11,198	

See footnotes at end of table.

TABLE 3.—PRODUCTS, BY CLASS, KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—
Continued

	1939			1937			1929		
	Number of establishments	Tons (2,240 pounds)	Value	Number of establishments	Tons (2,240 pounds)	Value	Number of establishments	Tons (2,240 pounds)	Value
Finished hot-rolled products and forgings—Continued.									
Wire rods, total.....	52	3,217,320		48	2,943,821		48	3,151,858	
Made for sale.....		685,804	\$30,635,317		661,075	\$31,861,019		783,052	\$33,045,170
Interplant transfers.....		334,308	15,562,466		379,007	17,367,990		372,130	15,996,928
Produced and consumed in the same works.....		2,197,208			1,903,739			1,996,676	
Bolt and nut rods and spike and chain rods, total.....	25	(10)		26	279,961		30	433,283	
Made for sale and for interplant transfer.....		(10)	(10)		37,113	1,738,171		120,980	5,683,340
Bolt and nut rods produced and consumed in the same works.....		94,466			137,689			155,417	
Spike and chain rods produced and consumed in the same works.....		127,009			105,159			156,886	
Plates, No. 12 (0.109") and thicker (except stainless steel), not coated, total.....	58	2,968,463		59	3,441,767		60	5,284,879	
Universal plates:									
Made for sale and for interplant transfer.....		574,244	25,659,814		700,095	34,263,912			
Produced and consumed in the same works.....		62,825			52,036				
Sheared plates:									
Made for sale and for interplant transfer.....		2,209,747	104,803,384		2,633,652	133,730,749		5,218,949	228,236,180
Produced and consumed in the same works.....		85,399			46,192			765,930	
Saw plates made for sale and for interplant transfer.....		5,806	1,865,825		9,792	3,499,764			
Treaded floor plates made for sale and for interplant transfer.....		30,442	1,685,981		(11)	(11)		(12)	(12)
Sheets, No. 13 (0.095") and thinner (except stainless steel), not coated, total.....	70	12,424,816		77	11,431,653		92	7,284,905	
Plain, total ¹³		9,454,345			8,331,948		13	5,314,512	
Made for sale.....		4,118,042	215,277,867		3,821,455	232,443,740			
Interplant transfers.....		1,155,840	38,737,443		967,109	39,301,236		3,897,849	206,757,106
Produced and consumed in the same works.....		4,180,463			3,543,384			1,416,663	
Black, for tinning (tin-mill black plate), total.....		2,970,471			3,099,705			1,970,393	
Made for sale.....		430,726	29,193,149		376,139	27,342,968			
Interplant transfers.....		442,093	18,001,022		403,193	17,866,976		143,200	10,179,155
Produced and consumed in the same works.....		2,097,652			2,320,373			1,827,193	
Stainless-steel plates, and sheets made for sale and for interplant transfer.....	16	25,185	17,494,523	16	32,853	21,618,180		(14)	(14)
Strips, bands, flats, scroll and hoops, narrower than 24 inches, total.....	60	1,755,457		63	2,712,797		44	2,726,171	
Hot-rolled strips and flats for cold-rolling:									
Made for sale.....		647,828	32,987,424		1,074,745	59,903,714		381,850	16,637,505
Interplant transfers.....		100,822	5,808,062		284,442	13,477,852		96,799	4,659,018
Produced and consumed in the same works.....		297,614			347,137			583,502	
Stainless-steel strips and flats made for sale and for interplant transfer.....		32,574	13,297,175		22,464	11,839,422		(15)	(15)
Other hoops, bands, scroll, and strips:									
Made for sale.....		593,234	31,260,222		902,869	52,213,360		1,456,929	70,201,164
Interplant transfers.....		36,556	2,563,988		3,469	172,953		70,873	3,583,073
Produced and consumed in the same works.....		46,829			77,681			136,209	
Cotton ties made for sale.....	4	31,169	1,733,473	4	62,092	3,329,293	5	38,216	1,842,250
Skelp, total.....	34	2,105,059		35	2,313,153		39	3,558,050	
Made for sale.....		576,832	22,127,148		608,713	26,684,541		654,721	25,414,922
Interplant transfers.....		152,295	6,273,579		535,073	18,410,558		616,634	24,706,274
Produced and consumed in the same works.....		1,365,959			1,169,367			2,286,695	
Axles, rolled and forged, made for sale and for interplant transfer.....	10	76,444	6,162,519	9	126,592	11,424,076	11	150,448	12,038,622
Car and locomotive wheels, rolled and forged, made for sale and for interplant transfer.....	7	142,396	13,128,768	7	172,291	15,525,551	8	209,182	19,352,111
Armor plate and ordnance, total.....	9	48,513	24,415,988	8	19,715	8,460,893	6	9,939	3,287,261
Armor plate made for sale and for interplant transfer.....		31,420	13,020,864						
Shells and projectiles made for sale.....		9,883	6,133,817		19,715	8,460,893		9,939	3,287,261
Gun forgings and other ordnance, made for sale.....		7,210	5,261,307						
Sheet piling, plain, made for sale and for interplant transfer.....	5	141,426	7,058,897	5	113,877	5,773,394	(12)	(12)	(12)
Rolled and forged iron and steel products, not elsewhere specified, total.....		547,079			521,507			967,896	
Made for sale.....		369,424	45,489,204		303,150	46,402,870		534,419	57,482,580
Interplant transfers.....		64,608	4,948,203		79,418	4,588,500		141,440	8,862,992
Produced and consumed in the same works ¹⁶		113,049			138,939			292,037	
Scrap iron and steel, total.....		14,441,715			15,473,217			16,818,460	
For sale.....		696,139	12,421,515		1,317,497	29,575,897		1,871,891	28,894,147
Interplant transfers.....		1,579,573	21,870,052		1,611,091	24,024,602		958,170	13,207,281
Produced and consumed in the same works.....		12,166,003			12,544,629			13,988,399	
Cinder and scale, total.....		3,199,606			3,414,666			3,340,568	
For sale.....		223,902	683,556		333,593	987,050		432,010	1,163,744
Interplant transfers.....		2,412,384	4,153,455		2,339,876	3,928,554		762,322	1,567,313
Produced and consumed in the same works.....		563,320			741,097			2,146,236	

See footnotes at end of table.

STEEL WORKS AND ROLLING MILLS

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TABLE 3.—PRODUCTS, BY CLASS, KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—
Continued

	1939			1937			1929		
	Number of establishments	Tons (2,240 pounds)	Value	Number of establishments	Tons (2,240 pounds)	Value	Number of establishments	Tons (2,240 pounds)	Value
Further manufactured products made in departments operated in connection with steel works and rolling mills from finished rolling-mill and foundry products ¹⁷			\$1, 128, 570, 441			\$1, 260, 014, 628			\$1, 051, 009, 463
Miscellaneous products other than iron and steel, and electric energy sold			9, 118, 604			5, 792, 310			3, 131, 999
Receipts for contract, custom, and repair work			1, 797, 440			1, 980, 021			3, 110, 875

¹ Includes the production of steel castings in the "Steel castings" industry and a small amount produced in other industries and for this reason exceeds the sum of the "Ingots" and "Direct steel castings" tonnage shown below.

² For the total production of steel castings see tables 7 and 8 and the report entitled "Iron and Steel Foundry Products."

³ The tonnage of finished hot-rolled products and forgings includes minor duplications for 1939 and 1937 because of the fact that some rounds or blanks for seamless pipes and tubes, which were transferred or sold to other plants within the industry, are again included under the item "Pierced billets," and also by the fact that some manufacturers reported the production of hot-rolled strip coils (which were transferred to other plants) under the item "Plain" sheets. This production was further processed and again reported under the same item or as "Black for tinning."

⁴ Data on the production of pierced billets, rounds, and blanks were not reported for 1929. For further details on comparability see explanation in 1935 report.

⁵ The production of re-rolled or renewed rails is combined with rails for 1939 to avoid disclosing, exactly or approximately, the data of a company or corporation.

⁶ Made for sale and for interplant transfer.

⁷ Produced and consumed in the same works.

⁸ Includes a small tonnage and value of stainless steel rods.

⁹ Not called for separately on schedule.

¹⁰ "Made for sale and for interplant transfer" combined with "Steel bars" of "Carbon steel" to avoid disclosing, exactly or approximately, the data for a company or corporation.

¹¹ "Treaded floor plates made for sale and for interplant transfer" are included with "Sheared plates."

¹² No data available.

¹³ The total tonnage of "Plain" sheets shown for 1929 is comparable with subsequent years, but the break-down of this tonnage into "Made for sale," "Interplant transfers," and "Produced and consumed in same works" for 1929 is not comparable with 1937 and 1939 because of the reporting of cold-rolled sheets separately for the first time in 1935. For further explanation see 1935 Biennial Census of Manufactures report.

¹⁴ Not reported separately. Included in figures for other types of plates and sheets.

¹⁵ Not reported separately. Included in figures for other classifications under "Strip, bands, flats, scroll and hoops, narrower than 24 inches."

¹⁶ In addition to rolled and forged iron and steel products not elsewhere specified, the figures include the tonnage (produced and consumed in the same works) of armor plate, axles, car and locomotive wheels, concrete reinforcing bars, rails, re-rolled rails, rail joints, sheet piling and stainless steel plates, sheets, strips, bars and rods for which separate figures cannot be given without disclosing, exactly or approximately, the production reported by a company or corporation. The quantity of stainless steel (produced and consumed in same works) included in this figure for 1939 is 20,122 tons.

¹⁷ For total production of wire and wire products made in departments of rolling mills and in establishments classified in other industries, see separate report covering Wire Products subgroup; Tin Plate and Terneplate (see page 195); wrought pipes and tubes; bolts, nuts, washers, and rivets; cut nails, spikes, and tacks; galvanized plates and sheets; corrugated sheets; cold-rolled sheets and strips; cold-finished steel bars; horseshoes; railroad spikes; and iron and steel rolls for rolling mills (see table 4).

TABLE 4.—PRINCIPAL MANUFACTURES FROM ROLLING-MILL PRODUCTS, EXCEPT TIN PLATE AND TERNEPLATE AND WIRE AND WIRE PRODUCTS—PRODUCTION, BY KIND, QUANTITY, AND VALUE, AND NUMBER OF ESTABLISHMENTS REPORTING: 1939, 1937, AND 1929

[The phrase "Made in Rolling-Mill industry," as here used, refers to products manufactured in departments operated in steel works and rolling mills]

	1939 ¹	1937	1929		1939 ¹	1937	1929
Railroad spikes ² :				Bolts, nuts, rivets, washers, etc.—Continued.			
Establishments.....	22	20	19	Iron and steel—Continued.			
Kegs (200 pounds).....	1, 402, 166	1, 214, 247	1, 857, 105	Washers—Continued.			
Value.....	\$8, 475, 558	\$7, 024, 811	\$10, 337, 883	Plate—Continued.			
Bolts, nuts, rivets, washers, etc., total value ³	\$99, 844, 878	\$124, 945, 864	\$126, 507, 707	Quantity not reported, value.....	\$447, 798	121, 728, 600	(⁴)
Made in Rolling-Mill industry:				Spring and lock—		\$10, 539, 256	
Establishments.....	25	24	27	Quantity reported—		1, 800, 048	
Value.....	\$17, 626, 215	\$23, 525, 791	\$18, 890, 021	Pounds.....	43, 991, 097		
Made in other industries:				Value.....	\$4, 555, 326		
Establishments.....	228	311	185	Quantity not reported, value.....	\$926, 126		
Value.....	\$82, 218, 663	\$101, 420, 073	\$107, 617, 776	Turnbuckles, toggle bolts, etc., value.....	\$2, 854, 217	\$3, 310, 510	
Iron and steel:				Nonferrous bolts, nuts, rivets, washers, etc., value.....	\$8, 853, 974	\$8, 535, 190	
Bolts and nuts—				Cut and wrought nails, spikes, and tacks, total value ⁴	\$6, 606, 163	\$5, 954, 936	\$7, 503, 760
Hot-formed—				Establishments.....	(⁷)	(⁷)	33
Quantity reported—				Horseshoe nails, value.....	(⁷)	(⁷)	\$1, 132, 842
Pounds.....	484, 659, 611			Cut nails and spikes:			
Value.....	\$32, 028, 295	1, 041, 721, 532		Pounds.....	7 41, 258, 700	7 34, 285, 250	
Quantity not reported, value.....	\$2, 375, 183	\$80, 504, 032		Value.....	7 \$2, 520, 731	7 \$2, 146, 532	\$6, 436, 835
Cold-headed—				Cut tacks:			\$6, 370, 918
Quantity reported—				Pounds.....	33, 593, 733	30, 381, 004	
Pounds.....	354, 620, 704	\$4, 390, 083		Value.....	\$4, 085, 432	\$3, 808, 404	
Value.....	\$28, 440, 443			Nails and tacks, not reported by kinds specified above:			
Quantity not reported, value.....	\$2, 552, 317			Thumb tacks—			
Rivets—				Quantity reported—			
Hot-formed—				Pounds.....	975, 479		
Quantity reported—				Value.....	\$410, 870	\$411, 426	
Pounds.....	103, 258, 586	330, 239, 550		Quantity not reported, value.....	\$256, 976		(⁵)
Value.....	\$4, 308, 688	\$15, 355, 261		Upholstery nails—			
Quantity not reported, value.....	\$437, 282	\$1, 011, 484		Pounds.....	1, 653, 549	\$661, 180	
Cold-headed—				Value.....	\$599, 999		
Quantity reported—				Copper and brass nails, tacks, and staples separately reported:			
Pounds.....	159, 247, 440			Pounds.....	2, 638, 053	4, 067, 771	(⁶)
Value.....	\$8, 264, 464			Value.....	\$710, 693	\$1, 085, 803	
Quantity not reported, value.....	\$598, 198						
Washers—							
Plate—							
Quantity reported—							
Pounds.....	55, 368, 799						
Value.....	\$3, 202, 567						

See footnotes at end of table.

TABLE 4.—PRINCIPAL MANUFACTURES FROM ROLLING-MILL PRODUCTS, EXCEPT TIN PLATE AND TERNE PLATE AND WIRE AND WIRE PRODUCTS—PRODUCTION, BY KIND, QUANTITY, AND VALUE, AND NUMBER OF ESTABLISHMENTS REPORTING: 1939, 1937, AND 1929—Continued

	1939 ¹	1937	1929		1939 ¹	1937	1929
Galvanized plates, sheets, and strips, made for sale as such, total value ²	\$111,832,936	\$112,543,122	\$103,929,658	Fence posts ³ :			
Establishments.....	35	31	30	Establishments.....	56		
Plain:				Tons (2,240 pounds).....	60,722	(⁴)	(⁴)
Tons (2,240 pounds).....	938,952	898,492	959,524	Value.....	\$4,087,320		
Value.....	\$70,880,421	\$73,970,211	\$77,566,887	Cold-rolled sheets (not including black for tinning), 24 inches and over in width ¹¹ :			
Corrugated or crimped:				Establishments.....	26	29	
Tons (2,240 pounds).....	507,009	454,386	306,423	Tons (2,240 pounds).....	2,471,005	1,942,664	(⁴)
Value.....	\$40,952,515	\$38,572,911	\$20,362,771	Value.....	\$137,284,955	\$135,254,013	
Corrugated or crimped sheets, not galvanized, made in Rolling-Mill industry:				Cold-rolled strip steel, flat bright, except cold-rolled from drawn wire ¹² :			
Tons (2,240 pounds).....	4,111	6,814	5,285	Total tons (2,240 pounds).....	676,150	760,729	
Value.....	\$290,275	\$481,348	\$380,388	Total value.....	\$72,356,625	\$78,972,881	(⁴)
Wrought pipe and tubing, total value.....	\$321,816,406	\$401,012,879	\$455,276,528	Made in Rolling-Mill industry—			
Wrought-welded (except stainless), total value.....	\$165,492,355	\$206,189,297	\$296,094,404	Establishments.....	19	21	
Made in Rolling-Mill industry:				Tons (2,240 pounds).....	346,930	394,392	(⁴)
Tons (2,240 pounds).....	1,280,108	1,210,658	(⁴)	Value.....	\$35,615,261	\$39,463,073	
Value.....	\$93,790,096	\$93,646,073		Made in other industries—			
Made in other industries:				Establishments.....	32	33	
Quantity reported—				Tons (2,240 pounds).....	329,220	366,837	(⁴)
Tons (2,240 pounds).....	611,055	1,095,617	(⁴)	Value.....	\$36,741,304	\$39,509,308	
Value.....	\$67,976,877	\$109,191,593		Widths 6 inches and narrower—			
Quantity not reported, value.....	\$3,725,382	\$3,351,631		Razor-blade strip (0.01" and thinner)—			
Boiler tubes:				Tons (2,240 pounds).....	1,083	921	
Establishments.....	4	5	7	Value.....	\$346,012	\$259,638	348,480
Tons (2,240 pounds).....	24,524	26,650	40,628	Other—			
Value.....	\$3,100,987	\$3,295,390	\$4,851,283	Tons (2,240 pounds).....	397,330	472,252	\$39,536,721
Oil-country goods:				Value.....	\$49,263,166	\$54,571,028	
Establishments.....	15	17	21	Wider than 6 inches but under 12 inches—			
Tons (2,240 pounds).....	168,883	445,924	1,381,668	Tons (2,240 pounds).....	130,094	147,953	220,729
Value.....	\$15,269,410	\$36,960,504	\$101,360,062	Value.....	\$10,764,509	\$12,868,300	\$18,335,481
Line pipe:				Widths 12 inches and over but under 24 inches—			
Establishments.....	20	21	21	Tons (2,240 pounds).....	147,643	139,603	(⁴)
Tons (2,240 pounds).....	178,938	36,960,504	101,360,062	Value.....	\$11,982,938	\$11,273,415	
Value.....	\$13,354,325			Cold-finished steel bars, total value.....	\$62,436,191	\$76,584,847	\$71,755,645
Other black pipe ⁵ :				Made in Rolling-Mill industry:			
Establishments.....	49	50	38	Establishments.....	16	17	12
Tons (2,240 pounds).....	959,493	1,186,627	1,479,354	Tons (2,240 pounds).....	171,703	234,512	271,727
Value.....	\$69,188,913	\$90,587,261	\$117,240,138	Value.....	\$19,678,315	\$25,525,198	\$22,782,963
Galvanized pipe ⁵ :				Made in other industries:			
Establishments.....	23	23	19	Establishments.....	23	27	36
Tons (2,240 pounds).....	472,149	524,160	574,426	Tons (2,240 pounds).....	446,911	560,651	(⁴)
Value.....	\$42,033,869	\$48,835,267	\$58,008,425	Value.....	\$42,857,876	\$51,059,649	\$48,972,682
Mechanical tubing:				Drawn in coils:			
Establishments.....	30	26	15	Tons (2,240 pounds).....	43,087	58,019	
Quantity reported—				Value.....	\$5,687,031	\$8,533,682	728,781
Tons (2,240 pounds).....	91,297	122,914	77,178	Drawn in straight lengths:			
Value.....	\$18,819,469	\$23,109,244	\$11,486,952	Tons (2,240 pounds).....	575,527	737,144	\$58,280,896
Quantity not reported, value.....	\$3,725,382	\$3,351,631	\$3,147,544	Value.....	\$56,849,160	\$68,051,165	
Heavy-ribbed and lock-joint pipe:				Cold-finished steel bars not reported by quantity, value.....			\$13,468,749
Establishments.....	26	40	(⁴)	Rolls for rolling mills:			
Tons (2,240 pounds).....	7,756	(⁴)	(⁴)	Steel—			
Value.....	\$1,049,644	\$2,179,672	\$10,252,415	Tons (2,240 pounds).....	44,047	62,046	45,752
Stainless steel pipes and tubes ² :				Value.....	\$11,490,269	\$15,706,308	\$6,852,568
Establishments.....	7	(¹⁰)	(¹⁰)	Iron—			
Tons (2,240 pounds).....	3,115			Tons (2,240 pounds).....	77,267	104,783	126,074
Value.....	\$3,704,776			Value.....	\$13,466,173	\$16,942,569	\$14,533,031
Seamless (except stainless) pipe and tubes, total value ²	\$151,569,631	\$192,643,910	\$148,929,709				
Boiler tubes:							
Establishments.....	10	11	9				
Tons (2,240 pounds).....	106,463	148,119	185,369				
Value.....	\$15,137,905	\$21,866,595	\$21,728,457				
Oil-country goods and line pipe:							
Establishments.....	12	12	13				
Tons (2,240 pounds).....	1,161,897	1,332,771	882,732				
Value.....	\$97,459,902	\$122,782,573	\$81,369,391				
Black and galvanized:							
Establishments.....	8	10	5				
Tons (2,240 pounds).....	127,938	134,579	31,792				
Value.....	\$10,733,853	\$13,928,657	\$3,628,517				
Mechanical tubes:							
Establishments.....	12	13	12				
Tons (2,240 pounds).....	145,271	179,552	229,035				
Value.....	\$25,241,041	\$34,066,085	\$42,208,344				
Miscellaneous:							
Establishments.....	7	(¹⁰)	(¹⁰)				
Tons (2,240 pounds).....	22,374						
Value.....	\$2,996,930						
Horse and mule shoes ² :							
Establishments.....	8	8	9				
Kegs (100 pounds).....	206,650	220,306	417,182				
Value.....	\$1,306,984	\$1,370,509	\$2,663,713				
Horse and mule shoe calks:							
Establishments.....	5	4	10				
Value.....	\$137,366	\$196,407	\$538,663				

¹ In addition to the products covered by this table, steel works and rolling mills reported for 1939 the manufacture for sale of the following commodities: Switches, frogs, and crossings, 34,132 tons (2,240 pounds), valued at \$5,231,775; gray-iron castings (made for sale and interplant transfer), 378,152 tons, valued at \$11,467,693; heat corrosion-resistant alloy castings and nonferrous-metal castings, \$1,608,736; polished, planished, or glanced sheets, and pressed, stamped and other shapes, not advanced beyond pressing, 185,867 tons, valued at \$13,549,104; miscellaneous iron and steel products including fabricated structural steel, machinery, and steel springs, \$51,865,515. Figures showing the total output of these products in all industries in which they are manufactured are given, so far as available, in the reports for the industries in which they are normally classified.

² Made wholly or almost wholly in the "Steel works and rolling mills" industry.

³ Not including machine screws. For statistics on production of machine screws, cap and set screws, and other screw-machine products and wood screws, see report entitled "Screw-machine products and wood screws."

⁴ Revised.

⁵ No comparable data.

⁶ For production of wire nails, brads, spikes, and tacks, see report entitled "Wire and wire products."

⁷ Production of horseshoe nails included in "Cut nails and spikes" to avoid disclosing, exactly or approximately, the figures for individual establishments.

⁸ No data.

⁹ Conduit produced by establishments manufacturing pipe is included under the respective items of black and galvanized pipe. The data on total production of conduit (produced by manufacturers of pipe and that produced by manufacturers who purchase pipe) are shown in the report for "Electrical Machinery" group.

¹⁰ Not called for separately prior to 1939. Included in other classifications of pipe and tubes.

¹¹ Includes a small tonnage and value of sheets slit to widths under 24 inches.

¹² For production of cold-rolled from drawn wire, see report entitled "Wire Products."

TABLE 5.—PRODUCTION OF FINISHED ROLLED AND FORGED IRON AND STEEL FOR THE UNITED STATES, 1939, 1937, AND 1929, AND FOR STATES, 1939¹

[This table presents statistics for all States for which separate figures can be published without disclosing, exactly or approximately, data reported by individual establishments. Certain of the "Other States," however, reported the production of a larger tonnage of iron and steel than did some of those for which separate figures are given]

[Tons, 2,240 pounds]

STATE	Finished rolled and forged iron and steel
United States:	
1939.....	35,717,704
1937.....	37,316,326
1929.....	39,882,941
STATES, 1939	
Alabama, Georgia, Kentucky, and Tennessee.....	2,121,752
California.....	934,985
Colorado.....	216,299
Connecticut, Massachusetts, and Rhode Island.....	2,431,653
Illinois.....	4,629,927
Indiana.....	
Michigan.....	1,868,286
Minnesota.....	91,668
New Jersey.....	1,580,261
New York.....	7,977,177
Ohio.....	
Pennsylvania.....	10,191,948
Other States ²	3,673,748

¹ See footnote 3, table 3.² Delaware, Maryland, Missouri, Oklahoma, Texas, Virginia, Washington, West Virginia, Wisconsin.

TABLE 6.—PRODUCTION OF STEEL INGOTS (BY PROCESS) FOR THE STEEL WORKS AND ROLLING MILLS INDUSTRY, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND FOR STATES, 1939

[Tons, 2,240 pounds]

STATE	STEEL INGOTS, BY PROCESS ¹			
	Total	Open-hearth	Bessemer	Crucible and electric
United States:				
1939.....	47,787,610	43,041,374	3,094,207	918,350
1937.....	50,432,916	46,120,575	3,471,704	840,637
1929.....	54,793,683	47,196,242	7,096,275	501,166
Alabama, Georgia, Kentucky, and Tennessee.....	2,810,748	2,797,047		13,701
California, Colorado, and Washington.....	1,314,086	(²)		(²)
Connecticut, Delaware, Massachusetts, New Jersey, New York, and Rhode Island.....	2,869,174	(²)		(²)
Michigan and Minnesota.....	2,304,982	(²)		(²)
Ohio.....	10,534,808	8,867,917	2,370,809	522,854
Pennsylvania.....	13,248,013	12,021,241		
Illinois.....	3,632,110	3,263,639	723,398	4381,795
Indiana.....	5,997,567	5,783,868		
Other States.....	4,342,443	4,103,077		

¹ For production of steel castings by process, see report entitled "Iron and Steel Foundry Products."² Withheld to avoid disclosing, exactly or approximately, data for individual establishments.³ Maryland, Missouri, Oklahoma, Texas, West Virginia.⁴ Includes data for States covered by footnote 2.TABLE 7.—PRODUCTION OF STEEL INGOTS AND CASTINGS, BY QUANTITY AND BY PROCESS, FOR THE UNITED STATES: 1939, 1937, AND 1929¹

[Tons, 2,240 pounds]

	1939	1937	1929
Ingots and castings, total.....	47,787,610	51,682,080	56,248,213
Open-hearth, total.....	43,507,969	46,987,134	48,237,387
Basic.....	42,916,773	46,211,673	47,141,354
Acid.....	591,196	775,461	1,096,033
Bessemer.....	3,098,671	3,479,800	7,109,923
Electric or electrically refined and crucible.....	1,176,910	1,189,546	813,373
Process not reported by kind.....	4,060	25,600	87,530

TABLE 7.—PRODUCTION OF STEEL INGOTS AND CASTINGS, BY QUANTITY AND BY PROCESS, FOR THE UNITED STATES: 1939, 1937, AND 1929¹—Continued

	1939	1937	1929
Ingots and castings—Continued.			
Ingots, total.....	47,053,931	50,432,916	54,793,683
Open-hearth, total.....	43,041,374	46,120,575	47,196,242
Basic.....	42,681,411	45,726,878	46,617,671
Acid.....	359,963	393,697	578,571
Bessemer.....	3,094,207	3,471,704	7,096,275
Electric or electrically refined and crucible.....	918,350	840,637	501,166
Direct steel castings, total.....	733,679	1,249,164	1,454,530
Open-hearth, total.....	466,595	866,559	1,041,145
Basic.....	235,362	484,795	523,683
Acid.....	231,233	381,764	517,462
Bessemer.....	4,404	8,096	13,648
Electric or electrically refined and crucible.....	258,560	348,909	312,207
Process not reported by kind.....	4,060	25,600	87,530

¹ Includes the production of steel ingots and castings for all industries.TABLE 8.—PRODUCTION OF STEEL INGOTS AND CASTINGS, FOR CONSUMPTION AND FOR SALE, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY PROCESS, 1939¹

	Total production, tons (2,240 pounds)	FOR CONSUMPTION BY PRODUCING COMPANY			FOR SALE	
		Total	In works where produced	In other works of same company	Ingots	Castings
Total:						
1939.....	47,787,610	47,068,054	46,758,689	339,365	120,586	568,970
1937.....	51,682,080	50,458,834	49,947,610	511,224	190,598	1,032,648
1929.....	56,248,213	54,860,206	54,341,945	518,261	195,634	1,192,373
BY PROCESS, 1939						
Open-hearth, total.....	43,507,969	43,090,821	42,772,686	318,135		417,148
Basic.....	42,916,773	42,640,192	42,387,224	252,968		276,581
Acid.....	591,196	450,629	385,462	65,167		140,567
Bessemer.....	3,098,671	3,082,760	3,076,307	6,453		15,911
Electric and electrically refined and crucible.....	1,176,910	922,471	907,694	14,777		254,439
Process not reported by kind.....	4,060	2,002	2,002			2,058

¹ Includes the production for all industries.

TABLE 9.—PRODUCTION OF ALLOY STEEL BY PROCESS, FOR THE UNITED STATES: 1939, 1937, AND 1929

[Tons, 2,240 pounds]

	1939 ¹	1937	1929
Number of establishments.....	151	131	133
Aggregate production.....	2,828,384	3,086,655	3,243,347
Open-hearth, total.....	2,143,117	2,455,865	2,791,355
Basic.....	1,985,511	2,324,335	2,675,100
Acid.....	157,606	131,530	116,255
Crucible and electric.....	65,277	630,790	451,992
Ingots.....	2,733,442	2,984,700	3,085,305
Castings.....	94,942	101,955	158,042

¹ The following definitions relating to alloy steel were carried on the schedule used for the year 1939:

Alloy steel, other than stainless: Includes steel only where the minimum of the range specified in any of the elements named exceeds the following percentages: Nickel, 0.40 percent; chromium, 0.30 percent; copper, 0.50 percent; manganese, 1.65 percent; silicon, 0.50 percent; molybdenum, 0.10 percent; vanadium, tungsten, cobalt, titanium, and zirconium, any percent.

Stainless steel includes all steels (other than tool steels) containing 9 percent or more of chromium, with or without other alloys, or a combined content of 18 percent or more of chromium and other alloys.

² Includes data for 142,093 tons of stainless steel for 1939 of which 140,005 tons were ingots and 2,088 tons were castings; and 125,070 tons of stainless steel for 1937.³ Includes a very small production of Bessemer alloy steel, figures for which are withheld to avoid disclosing approximations of production reported by individual companies.⁴ Includes data on production for "Steel works and rolling mills" and "Steel castings" industries.

TABLE 10.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939 AND 1937

	1939			1937 ¹		
	Number of establishments	Quantity	Cost	Number of establishments	Quantity	Cost
Iron ore.....	106	Long tons 2,792,849	\$18,487,667	183	Long tons 2,556,131	\$16,973,186
Pig iron.....	125	28,089,678	428,488,735	233	29,532,583	458,337,201
Steel ingots.....	34	311,503	11,714,712	31	443,854	15,516,615
Blooms, billets, and slabs.....	106	7,380,275	221,102,983	113	6,292,843	216,475,170
Sheet and tin-plate bars.....	30	1,543,799	47,162,354	(2)	(2)	(2)
Ferroalloys (except manganese).....	124	283,432	36,890,133	241	724,402	69,637,883
Ferromanganese.....	122	333,193	25,676,967			
Scrap rails, axles, bars, etc., for rolling.....	49	1,226,307	21,891,854			
Other scrap iron and scrap steel ²	140	10,737,478	162,413,318	318	14,783,046	259,345,460
Zinc.....	62	Short tons 194,474	19,598,008	61	Short tons 173,219	22,205,687
Pig tin.....	64	44,906	40,905,442	63	44,618	47,057,430
Aluminum.....	118	Pounds 30,973,601	5,073,577	185	Pounds 32,588,000	5,399,064
Nickel.....	89	46,872,315	14,029,516	170	43,567,019	13,348,841
Copper.....	65	82,891,111	8,903,776	84	89,533,891	10,574,771
Copper scrap.....	34	9,719,256	765,479	36	10,226,696	1,068,475
Nonferrous alloys scrap.....	35	23,133,752	2,866,725	41	21,824,666	2,922,127

¹ Data for 1937 are not strictly comparable with 1939 because of the fact that the 1937 figures include the materials consumed by independent steel foundries engaged in producing steel castings, while for 1939 these data are excluded. This does not, however, materially affect the comparability.

² Not called for on schedule.

³ Not including scrap produced and reworked in same plants.

TABLE 11.—CONSUMPTION OF PIG IRON AND OF SCRAP IRON AND SCRAP STEEL (PURCHASED FROM OUTSIDE SOURCES OR TRANSFERRED FROM OTHER PLANTS UNDER SAME OWNERSHIP), BY QUANTITY AND COST, FOR SELECTED INDUSTRIES: 1939

[Scrap iron and scrap steel produced and reworked in same plants during the year not included]

INDUSTRY	PIG IRON		SCRAP IRON AND STEEL	
	Tons (2,240 pounds)	Cost	Tons (2,240 pounds)	Cost
Total value.....		\$501,160,867		\$252,163,739
Total, with quantity.....	31,450,863	501,159,020	18,040,087	252,163,337
Total, without quantity.....		1,847		402
Iron and steel and their products, except machinery, total.....	30,655,109	482,804,158	17,127,725	238,984,272
Blast-furnace products.....			2,392,412	13,310,795
Cast-iron pipe and fittings.....	678,322	11,802,340	467,149	6,753,043
Enamelled-iron sanitary ware and other plumbers' supplies (not including pipe and vitreous and semivitreous china sanitary ware).....	165,083	3,559,151	76,115	1,017,310
Gray-iron and semisteel castings.....	1,043,991	23,850,067	1,255,623	17,582,358
Heating and cooking apparatus, except electric, not elsewhere classified.....	2,270	61,246	590	7,900
Malleable-iron castings.....	231,253	5,267,002	136,453	2,284,947
Oil burners, domestic and industrial.....	152	3,090		
Steam and hot-water heating apparatus (including hot-water furnaces).....	89,421	1,930,378	162,896	2,409,731
Steam fittings, regardless of material.....	27,993	647,110	54,189	976,726

TABLE 11.—CONSUMPTION OF PIG IRON AND OF SCRAP IRON AND SCRAP STEEL (PURCHASED FROM OUTSIDE SOURCES OR TRANSFERRED FROM OTHER PLANTS UNDER SAME OWNERSHIP), BY QUANTITY AND COST, FOR SELECTED INDUSTRIES: 1939—Continued

INDUSTRY	PIG IRON		SCRAP IRON AND STEEL	
	Tons (2,240 pounds)	Cost	Tons (2,240 pounds)	Cost
Iron and steel and their products, except machinery—Con. Steel castings.....	131,333	\$3,075,185	515,455	\$8,849,987
Steel works and rolling mills.....	28,089,678	428,488,735	111,963,785	1184,305,172
Stoves, ranges, water heaters, and hot-air furnaces (except electric).....	195,613	4,119,854	103,058	1,486,303
Machinery (except electrical), total.....	426,099	10,138,678	455,301	7,288,035
Agricultural machinery (except tractors).....	62,393	1,549,700	85,498	1,123,848
Blowers; exhaust and ventilating fans.....	2,938	273,005	2,848	286,849
Measuring and dispensing pumps.....	1,430	30,599	2,306	33,111
Cars and trucks, industrial.....				
Commercial laundry, dry-cleaning, and pressing machinery.....	466	5,762	242	2,515
Elevators, escalators, and conveyors.....	8,818	199,060	20,079	490,244
Food-products machinery.....	6,975	164,914	13,357	209,174
Industrial machinery, not elsewhere classified.....	21,448	500,616	25,591	461,260
Machine-shop products, not elsewhere classified.....	82,727	2,085,067	80,913	1,224,766
Machine-shop repairs.....	624	13,383	2,037	23,324
Machine tools.....	26,632	722,000	28,284	500,756
Machine-tool and other metalworking machinery accessories, metal-cutting and shaping tools, and machinists' precision tools.....	10,212	184,064	7,972	64,621
Mechanical power-transmission equipment.....	12,027	278,426	18,122	596,207
Metalworking machinery and equipment, not elsewhere classified.....	12,893	335,021	13,652	273,355
Mining machinery and equipment.....	4,702	119,569	9,339	133,424
Oil-field machinery and tools.....	4,352	94,155	19,813	175,983
Paper-mill, pulp-mill, and paper-products machinery.....	9,304	212,276	8,209	126,813
Pumping equipment and air compressors.....	26,475	456,611	19,823	319,216
Special industry machinery, not elsewhere classified.....	13,666	362,729	12,391	192,070
Stokers, mechanical, domestic, and industrial.....	6,568	146,704	10,178	168,987
Tractors.....	102,918	2,544,104	70,545	1,074,527
Woodworking machinery.....	2,531	60,793	4,102	57,085
Automobiles and automobile equipment, total.....		7,954,054		4,280,113
Motor vehicles, motor-vehicle bodies, parts and accessories.....				
Quantity and cost reported.....	358,920	7,952,207	342,261	4,279,711
Quantity not reported, cost.....		1,847		402
Transportation equipment except automobiles, total.....	10,735	263,977	114,800	1,611,319
Locomotives (including frames) and parts: Railroad, mining, and industrial.....	7,824	183,370	5,448	96,815
Cars and car equipment—railroad, street, and rapid-transit.....	2,911	80,607	109,352	1,514,504

¹ Includes 1,226,307 tons at a cost of \$21,891,854 of scrap rails, axles, bars, etc., for rerolling.

² Combined to avoid disclosing, exactly or approximately, the data reported by individual establishments.

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TABLE 12.—STEEL FURNACES (ACTIVE ESTABLISHMENTS)—CAPACITY AND OUTPUT, BY PROCESS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND FOR STATES, 1939

[The data given in this table cover the number of establishments and capacity of steel furnaces for establishments classified in the "Steel works and rolling mills" and "Steel castings" industries. The data on production cover also 20,140 tons of steel castings made as secondary products in other industries for which data on capacity are not available]

STATE	Number of establishments operating steel furnaces	DAILY CAPACITY (24 HOURS) (TONS, 2,240 POUNDS)			Production of steel ingots during year, tons (2,240 pounds)	Production of steel castings during year, tons (2,240 pounds)
		Total	Open-hearth and Bessemer	Crucible and electric		
United States:						
1939.....	295	231,771	221,672	10,099	47,053,931	733,679
1937.....	281	226,048	218,526	7,522	51,682,080	
1929.....	296	224,705	217,845	6,860	56,248,213	
STATES, 1939						
Indiana.....	12	28,035	27,890	145	5,997,567	52,080
Ohio.....	42	48,371	46,639	1,732	10,534,808	132,848
Pennsylvania.....	82	74,654	71,731	2,923	13,248,013	220,407
Illinois.....	24	18,933	17,612	1,321	3,632,110	
Michigan.....	15	7,802				
Minnesota.....	3	856				
Alabama.....	6	10,523				
Georgia.....	2					
Kentucky.....	2		14,119	309	2,810,748	
Tennessee.....	3	3,900				
California.....	22	3,324				
Colorado.....	3	2,506	5,587	710	1,314,086	
Washington.....	5	467				
Connecticut.....	3	503				
Delaware.....	3	1,075	2,121	91		328,344
Massachusetts.....	4	634			2,869,174	
New York.....	17	11,202	10,433	769		
New Jersey.....	5	1,286	1,110	176		
Rhode Island.....	1					
Missouri.....	8	2,094				
Oregon.....	3	40				
Texas.....	4	131	8,271	776	2,342,443	
West Virginia.....	4	6,148				
Wisconsin.....	11	634				
Other States.....	* 11	8,648	* 8,352	* 296		

¹ For further break-down of steel castings by States, see report entitled "Iron and Steel Foundry Products."

² Includes Maryland, Missouri, Oklahoma, Texas, and West Virginia.

³ Arkansas, 1 establishment; Florida, 1; Iowa, 2; Kansas, 1; Louisiana, 1; Maryland, 2; Oklahoma, 2; Utah, 1.

⁴ Iowa, Louisiana, Maryland, and Oklahoma.

⁵ Arkansas, Florida, Iowa, Kansas, Maryland, Oklahoma, Utah.

TABLE 13.—STEEL FURNACES AND METAL MIXERS (ACTIVE ESTABLISHMENTS)—NUMBER AND CAPACITY, BY PROCESS, FOR THE UNITED STATES: 1939, 1937, AND 1929

[Tons, 2,240 pounds]

[See headnote for table 12 as to extent of coverage]

	1939	1937	1929
Open-hearth furnaces:			
Basic—			
Steel Works and Rolling Mills industry—			
Number of establishments.....	88		
Number of furnaces.....	907		
Daily capacity (24 hours), tons.....	184,832	108	110
Steel Castings industry—		981	988
Number of establishments.....	14	182,306	163,513
Number of furnaces.....	48		
Daily capacity (24 hours), tons.....	3,428		
Acid—			
Steel Works and Rolling Mills industry—			
Number of establishments.....	21		
Number of furnaces.....	58		
Daily capacity (24 hours), tons.....	4,215	53	62
Steel Castings industry—		118	152
Number of establishments.....	30	7,081	8,825
Number of furnaces.....	54		
Daily capacity (24 hours), tons.....	4,000		
Converters:			
Steel Works and Rolling Mills industry—			
Number of establishments.....	20		
Number of converters.....	46		
Daily capacity (24 hours), tons.....	26,071	25	34
Steel Castings industry—		54	76
Number of establishments.....	5	29,139	45,507
Number of converters.....	8		
Daily capacity (24 hours), tons.....	57		
Electric furnaces:			
Steel Works and Rolling Mills industry—			
Number of establishments.....	52		
Number of furnaces.....	141		
Daily capacity (24 hours), tons.....	5,001	155	158
Steel Castings industry—		317	265
Number of establishments.....	125	7,486	6,572
Number of furnaces.....	209		
Daily capacity (24 hours), tons.....	4,078		
Crucible furnaces:			
Steel Works and Rolling Mills industry—			
Number of establishments.....	3		
Number of furnaces.....	14		
Daily capacity (24 hours), tons.....	11	8	21
Steel Castings industry—		23	46
Number of establishments.....	3	37	288
Number of furnaces.....	18		
Daily capacity (24 hours), tons.....	12		
Metal mixers:			
Steel Works and Rolling Mills industry—			
Number of mixers.....	91		
Capacity.....	54,071	82	95
Steel Castings industry—		47,421	51,523
Number of mixers.....	4		
Capacity.....	23		

¹ Number of pots, 36.

TABLE 14.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	368,904	344,101	345,895	346,529	345,874	342,427	343,950	345,014	348,933	374,987	415,642	434,380	439,119
1937.....	438,043	433,944	438,859	453,354	462,079	464,723	423,411	458,248	459,451	456,604	437,092	401,800	366,946
Alabama.....	13,496	13,194	13,187	13,216	13,173	12,877	12,993	13,158	13,143	13,707	14,323	14,407	14,577
California.....	5,021	4,651	4,696	4,713	4,880	4,974	4,988	4,858	5,034	5,274	5,273	5,477	5,433
Illinois.....	25,079	22,934	23,328	23,595	23,760	23,484	22,997	22,811	23,260	26,310	28,899	29,740	29,845
Indiana.....	36,519	33,961	33,550	34,100	34,235	33,920	33,718	33,905	34,045	38,088	40,832	42,348	43,077
Kentucky.....	4,974	4,720	4,689	4,684	4,688	4,574	4,646	4,696	4,715	4,907	5,568	5,901	5,894
Maryland.....	16,587	16,222	14,841	14,870	14,987	16,278	16,189	16,408	16,574	17,739	18,224	18,822	18,891
Massachusetts.....	1,950	1,886	1,875	1,875	1,866	1,833	1,827	1,800	1,809	1,983	2,158	2,244	2,240
Michigan.....	9,851	10,158	9,891	9,692	9,441	9,228	9,152	9,070	8,936	9,672	10,627	11,018	11,324
New Jersey.....	6,924	6,767	6,675	6,625	6,686	6,506	6,531	6,508	6,556	6,715	7,521	7,973	8,041
New York.....	16,563	14,717	14,731	14,730	14,728	14,536	14,342	14,109	15,223	16,621	19,845	21,204	21,450
Ohio.....	71,906	68,667	68,613	68,453	68,555	66,241	66,733	66,871	68,089	70,754	80,164	84,455	85,276
Pennsylvania.....	134,477	122,375	125,227	125,136	123,976	124,301	125,336	126,314	126,412	136,783	153,190	161,037	163,640
West Virginia.....	13,002	12,446	12,752	12,817	12,847	12,538	12,393	12,454	12,783	13,198	13,766	14,221	13,816

TABLE 15.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	253
Reporting expenditures for plant and equipment.....	216
Value of products:	
Total for the industry.....	\$2,720,019,564
Reporting expenditures for plant and equipment.....	2,503,365,103
Expenditures for plant and equipment:	
Total for the industry.....	87,922,955
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	33,939,475
Expenditures for new machinery and operating equipment.....	52,034,867
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	1,948,613

TABLE 16.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

[See "Blast-furnace products" report, table 12, footnote 1, p. 183]

	1939	1937
Inventories:		
Beginning of year, total.....	\$565,637,447	\$534,286,744
Finished products.....	188,171,273	174,494,315
Materials, supplies, etc.....	377,466,174	359,792,429

TABLE 16.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937—Continued

	1939	1937
Inventories—Continued.		
End of year, total.....	\$629,707,618	\$625,803,605
Finished products.....	201,808,749	189,175,992
Materials, supplies, etc.....	427,898,869	436,627,613
Value of products for the industry, total.....	2,720,019,564	3,146,263,440
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	2,718,216,139	3,142,012,609
Value for establishments not reporting inventories.....	1,803,425	4,250,831

TABLE 17.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

See table 13 (p. 184) of the report for "Blast-furnace products." Because of the close relationship of the "Blast-furnace products" and the "Steel works and rolling mills" industries and, particularly, because of the fact that in many cases the power for blast furnaces and steel works and rolling mills operated under a common ownership is generated in a separate power plant under the same ownership, it is impossible to obtain complete separate data for the power equipment used by each industry.

TIN PLATE AND TERNEPLATE

[A preliminary report for these products was issued October 8, 1940]

The manufacture of tin plate and terneplate is not treated as a separate industry because of the fact that the production of black plates is a rolling-mill operation and 32 of the 34 tin plate and terneplate establishments that reported for 1939 were operated as dipping departments of the mills that rolled the plates. The other two establishments were classified in the "Tin cans and other tinware not elsewhere classified" and "Stamped

and pressed metal products (except automobile stampings)" industries, respectively.

The number of wage earners, amounts of wages paid, cost of materials, etc., are not reported separately for the dipping departments of rolling mills and other establishments that operate such departments, but are included in the respective items for the industries in which they are classified.

PRODUCTION OF TIN PLATE AND TERNEPLATE BY KIND, QUANTITY, AND VALUE; AND EQUIPMENT, BY NUMBER OF SETS AND BY CAPACITY: 1939, 1937, AND 1929

	1939	1937	1929		1939	1937	1929
Number of establishments.....	34	34	31	PRODUCTS—continued			
PRODUCTS				Other products, including tin			
Total value.....	\$264,444,538	\$285,775,176	\$213,084,656	dross, scrap, etc., value..	\$4,782,769	\$6,137,230	\$3,409,469
Tin plate and terneplate:				EQUIPMENT IN ACTIVE PLANTS			
Total pounds.....	5,711,326,129	6,049,851,997	4,377,448,538	Number of dipping sets at end of			
Total value.....	\$259,661,769	\$279,637,946	\$209,675,187	year, total.....	550	545	509
Tin plate—				Tin plate:			
Total pounds.....	5,121,442,997	5,433,508,753	4,031,856,278	Mechanical.....	414	398	370
Total value.....	\$235,946,198	\$254,289,004	\$194,107,222	Hand-fed.....	75	88	94
Coke plate—				Terneplate.....	61	59	45
Pounds.....	5,083,675,697	5,382,573,615	3,958,323,114	Daily capacity (24-hour basis),			
Value.....	\$233,703,036	\$251,520,497	\$189,050,613	total pounds.....	27,911,144	26,547,676	20,846,020
Charcoal plate—				Tin plate.....	24,873,364	23,723,367	19,314,120
Pounds.....	37,767,300	50,935,138	73,533,164	Terneplate.....	3,037,780	2,824,309	1,531,900
Value.....	\$2,243,162	\$2,768,567	\$5,056,609	Number of sets building.....	7	7	2
Terneplate, including long							
terne							
Pounds.....	589,883,132	616,343,244	345,592,260				
Value.....	\$23,715,571	\$25,348,882	\$15,567,965				

GRAY-IRON AND SEMISTEEL CASTINGS

[A preliminary report for this industry was issued November 13, 1940]

Description of the industry.—This industry embraces establishments engaged primarily in the production of gray-iron and semisteel castings. Prior to 1939, the statistics for gray-iron and malleable-iron castings were combined in one industry classification, but for 1939 they have been classified as separate industries. A segregation of the figures for 1937 has been made for comparability with those for 1939. Comparable data for prior years are not available. The production of "Cast-iron pipe and fittings" is treated as a separate and distinct industry, statistics for which are given on page 207.

Detailed statistics of products.—Gray-iron and semisteel castings are made to a considerable extent in establishments classified in other industries, that incidentally operate foundry departments for production of gray-iron castings for their own consumption in the further manufacture of such products as motor vehicles, stoves, furnaces, plumbing fixtures, machinery,

etc. Table 4, as presented, gives the total production of gray-iron castings (except cast-iron pipe and fittings) regardless of industry classification. Table 5 gives the production of gray-iron castings for those States which can be shown separately without disclosing, exactly or approximately, data reported by individual establishments.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	1,161	58,428	\$70,757,944	\$78,971,925	\$209,719,754	\$130,747,829	18,671
1937.....	1,152	73,993	94,065,057	96,963,681	261,441,613	164,477,932	(4)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Alabama	Arizona	California	Colorado	Connecticut	Florida	Georgia	Idaho	Illinois
Number of establishments ¹	1,161	18	5	61	14	21	9	17	3	87
Proprietors and firm members.....	551	14	3	55	10	3	6	10	3	31
Persons reported by manufacturing establishments, total ²	65,459	500	164	2,721	459	1,818	110	663	11	5,779
Salaried officers of corporations ³	1,261	5	4	36	5	38	6	12	-----	99
Manufacturing:										
Salaried employees ³	4,578	33	8	168	36	105	4	48	-----	413
Wage earners (average for the year) ³	58,428	454	152	2,410	414	1,609	99	582	11	5,128
Distribution.....	962	8	-----	102	4	47	1	17	-----	101
Construction.....	144	-----	-----	5	-----	4	-----	1	-----	30
Other.....	86	-----	-----	-----	-----	15	-----	3	-----	8
Salaries and wages, total ²	\$88,374,243	\$394,667	\$201,244	\$3,970,106	\$613,958	\$2,491,479	\$127,103	\$650,020	\$16,364	\$7,934,218
Salaried officers ³	6,025,302	18,679	28,300	187,921	21,380	275,511	15,142	53,600	-----	505,302
Manufacturing:										
Salaries ³	9,318,185	64,300	14,802	355,651	72,474	209,159	6,672	90,214	-----	856,556
Wages.....	70,757,944	296,288	158,142	3,218,719	516,016	1,886,506	102,016	474,649	16,364	6,274,117
Distribution.....	1,920,797	15,400	-----	196,485	4,088	90,863	3,273	28,188	-----	287,202
Construction.....	183,599	-----	-----	11,330	-----	5,647	-----	1,238	-----	10,839
Other.....	168,416	-----	-----	-----	-----	23,793	-----	2,231	-----	202
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	78,971,925	389,161	259,530	3,424,428	962,269	1,313,233	81,645	506,194	8,109	8,286,120
Materials and supplies.....	67,296,655	328,822	196,631	2,825,452	850,373	1,065,804	67,330	433,519	6,700	7,355,548
Fuel.....	7,548,093	39,192	56,452	367,547	95,244	190,167	10,653	53,253	466	632,042
Purchased electric energy.....	3,420,599	17,362	6,380	148,338	16,692	55,352	3,662	18,734	943	289,669
Contract work.....	697,668	3,785	67	83,091	960	1,880	-----	688	-----	8,861
Value of products.....	209,719,754	1,039,154	695,404	8,830,819	2,027,421	4,496,971	266,636	1,462,380	45,585	20,259,126
Value added by manufacture ⁴	130,747,829	649,993	435,874	5,406,391	1,065,152	3,183,738	184,991	956,186	37,476	11,973,009

See footnotes at end of table.

GRAY-IRON AND SEMISTEEL CASTINGS

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TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Indiana	Iowa	Kansas	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota
Number of establishments ¹	67	23	7	9	8	8	14	62	78	25
Proprietors and firm members.....	13	14	2	1	4	6	8	33	30	18
Persons reported by manufacturing establishments, total ²	5,469	814	310	375	212	124	621	2,719	8,404	753
Salaried officers of corporations ²	97	27	3	15	3	8	13	59	114	23
Manufacturing:										
Salaried employees ²	398	60	32	22	21	12	52	210	660	48
Wage earners (average for the year) ³	4,916	711	273	328	187	104	525	2,384	7,555	669
Distribution.....	47	14	2	10	1		29	27	59	11
Construction.....	10	2					2	34	16	2
Other.....	1						5			
Salaries and wages, total ²	\$7,149,007	\$1,075,850	\$337,902	\$440,624	\$253,216	\$128,507	\$797,983	\$3,997,607	\$11,269,173	\$984,628
Salaried officers ²	457,834	76,828	11,880	46,732	19,200	12,170	138,211	394,814	674,903	35,894
Manufacturing:										
Salaries ²	734,166	121,862	45,717	40,101	41,481	24,078	96,681	397,647	1,397,392	87,869
Wages.....	5,835,480	853,544	274,125	339,293	190,738	92,259	518,666	3,089,841	9,002,724	838,881
Distribution.....	115,763	21,361	6,180	14,498	1,797		41,186	69,914	158,685	19,548
Construction.....	5,608	2,255					3,249	41,655	35,469	2,436
Other.....	156						3,836			
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	5,105,891	920,615	306,256	420,547	336,116	61,915	922,671	2,395,168	10,019,943	778,289
Materials and supplies.....	4,261,202	788,709	237,600	355,277	275,338	49,657	807,068	1,975,150	8,109,206	617,688
Fuel.....	575,721	89,640	48,724	47,218	34,618	8,811	85,898	282,359	1,048,225	122,207
Purchased electric energy.....	263,547	40,766	19,932	18,052	26,160	3,447	29,618	113,731	663,599	36,055
Contract work.....	5,421	1,500					87	23,928	198,913	2,339
Value of products.....	14,813,162	2,554,884	924,194	967,297	799,808	218,284	2,187,514	7,720,325	27,085,805	2,472,870
Value added by manufacture ⁴	9,707,271	1,634,289	617,938	546,750	463,692	156,369	1,264,843	5,825,157	17,065,862	1,694,581

ITEM	Missouri	Nebraska	New Hampshire	New Jersey	New York	North Carolina	Ohio	Oklahoma	Oregon	Pennsylvania
Number of establishments ¹	29	4	9	46	70	20	122	13	11	119
Proprietors and firm members.....	3	3	4	13	30	23	22	5	7	64
Persons reported by manufacturing establishments, total ²	1,729	38	177	3,141	4,000	353	11,803	222	196	5,384
Salaried officers of corporations ²	36	2	5	69	90	8	150	13	7	121
Manufacturing:										
Salaried employees ²	124	4	12	215	269	31	761	20	14	335
Wage earners (average for the year) ³	1,522	32	159	2,807	3,581	304	10,697	187	165	4,837
Distribution.....	44		1	50	57	10	138	2	10	73
Construction.....	3				2		7			17
Other.....					1		50			1
Salaries and wages, total ²	\$2,240,314	\$45,124	\$202,296	\$4,283,552	\$5,566,501	\$343,253	\$17,261,886	\$224,639	\$260,623	\$6,772,335
Salaried officers ²	215,876	2,400	15,719	375,853	435,686	12,980	735,019	28,936	17,178	452,125
Manufacturing:										
Salaries ²	248,835	5,380	16,307	412,664	536,874	48,496	1,778,824	30,991	25,364	661,598
Wages.....	1,684,323	37,344	168,606	3,419,427	4,465,242	266,149	14,344,002	161,712	204,012	5,507,818
Distribution.....	87,377		1,664	75,608	116,753	15,628	258,041	3,000	14,069	120,131
Construction.....	3,903				11,709		12,377			29,101
Other.....					237		133,623			1,562
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	2,157,650	31,052	92,604	3,044,067	4,079,779	271,380	16,855,357	137,726	239,860	8,920,443
Materials and supplies.....	1,804,827	24,115	68,798	2,535,883	3,334,937	236,083	14,830,797	109,664	188,192	8,050,070
Fuel.....	204,841	5,500	14,512	317,530	494,475	24,317	1,341,427	21,231	26,492	539,551
Purchased electric energy.....	126,126	1,437	8,596	146,373	208,278	8,816	623,716	5,663	7,441	224,451
Contract work.....	21,856		698	44,281	42,089	2,164	59,417	568	17,735	106,371
Value of products.....	5,572,644	93,370	365,045	9,198,148	11,847,862	765,381	43,489,257	464,784	601,089	19,475,987
Value added by manufacture ⁴	3,414,994	62,318	272,441	6,154,081	7,768,083	494,001	26,633,900	327,058	361,229	10,555,544

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Rhode Island	South Carolina	Tennessee	Texas	Utah	Vermont	Virginia	Washington	Wisconsin	Other States ¹
Number of establishments ¹	5	9	20	28	7	6	26	28	38	15
Proprietors and firm members.....	9	9	11	20	4	-----	13	23	10	14
Persons reported by manufacturing establishments, total ²	293	172	744	888	124	409	677	471	2,194	418
Salaried officers of corporations ³	2	5	15	25	11	6	19	24	73	13
Manufacturing:										
Salaried employees ⁴	14	14	51	65	13	26	39	29	169	43
Wage earners (average for the year) ⁵	276	148	671	746	96	373	613	402	1,941	360
Distribution.....	-----	5	7	52	4	2	6	10	10	1
Construction.....	1	-----	-----	-----	-----	2	-----	6	-----	1
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	1	-----
Salaries and wages, total ²	\$384,905	\$162,931	\$733,415	\$980,834	\$174,525	\$675,985	\$749,041	\$683,401	\$3,243,505	\$551,522
Salaried officers ³	7,600	9,326	60,021	99,629	21,033	24,940	58,480	69,542	340,584	68,074
Manufacturing:										
Salaries ⁴	25,465	18,588	90,681	123,395	27,952	89,154	73,414	59,085	316,115	72,181
Wages.....	350,020	126,070	574,566	683,424	122,012	556,915	607,263	530,749	2,561,351	408,681
Distribution.....	-----	8,947	8,147	74,386	3,528	3,146	9,884	20,792	23,055	2,210
Construction.....	1,820	-----	-----	-----	-----	1,830	-----	3,233	-----	-----
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	2,400	376
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	296,077	85,188	938,724	864,326	114,627	340,315	847,795	448,175	2,203,777	504,903
Materials and supplies.....	201,010	72,036	826,991	731,086	75,590	290,231	740,577	351,867	1,824,730	391,797
Fuel.....	31,679	10,466	85,656	107,150	30,952	34,901	84,759	65,116	223,174	95,837
Purchased electric energy.....	11,555	2,686	26,077	24,128	8,085	15,183	21,565	28,313	142,472	17,269
Contract work.....	51,833	-----	1,962	-----	-----	-----	894	2,879	13,401	-----
Value of products.....	831,502	331,719	2,006,176	2,357,943	447,850	1,230,290	2,121,183	1,540,599	6,853,053	1,258,233
Value added by manufacture ⁴	535,425	246,531	1,067,452	1,493,617	333,223	889,975	1,273,388	1,092,424	4,649,276	753,330

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Arkansas, 1 establishment; Delaware, 1; Mississippi, 2; Montana, 1; Nevada, 1; New Mexico, 1; North Dakota, 1; South Dakota, 1; West Virginia, 6.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Gray-Iron and Semisteel Castings industry, all products, total value.....	\$209,719,754	\$261,441,613
Gray-iron and semisteel castings made in this industry (for sale and for inter-plant transfer).....	187,530,090	231,412,598
Receipts for contract and repair work.....	2,961,525	5,273,242
Miscellaneous products not specified.....	4,781,153	-----
Other products (not classified in this industry).....	14,446,986	24,755,773
Gray-iron and semisteel castings, total value.....	301,051,791	362,756,026
Gray-iron and semisteel castings made in this industry.....	187,530,090	231,412,598
Gray-iron and semisteel castings made as secondary products in other industries.....	113,521,701	131,343,428

¹ Value of cast-iron pipe and fittings, malleable-iron castings, steel castings, and machinery.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

[The figures do not include the production of cast-iron pipe and fittings for which there is a separate industry classification, "Cast-iron pipe and fittings"]

[Tons, 2,000 pounds]

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Total	
Total value ¹	\$187,530,090	\$113,521,701	\$301,051,791	\$362,756,026
Gray-iron and semisteel castings other than chilled-iron railway wheels and iron rolls (for sale and for inter-plant transfer):				
Tons.....	2,013,632	1,382,603	3,396,235	4,005,145
Value.....	\$168,933,003	\$104,618,241	\$273,551,244	\$327,660,671
Chilled-iron railway wheels:				
Made from purchased materials—				
Tons.....	98,538	79,339	177,877	653,943
Value.....	\$2,953,771	\$2,516,677	\$5,470,448	
Made on a conversion basis—				
Tons.....	339,132	-----	339,132	\$18,152,786
Value.....	\$8,563,926	-----	\$8,563,926	
Gray-iron rolls for rolling mills:				
Tons.....	48,582	37,957	86,539	117,301
Value.....	\$7,079,390	\$6,386,783	\$13,466,173	\$16,942,569
Gray-iron castings produced and consumed in same plant, tons ¹	62,620	1,785,502	1,848,122	1,875,888

¹ No value assigned to tonnage produced and consumed in same plant.

GRAY-IRON AND SEMISTEEL CASTINGS

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TABLE 5.—PRODUCTION, BY QUANTITY AND VALUE, BY STATES: 1939 AND 1937¹

[Tons, 2,000 pounds]

STATE	1939				1937			
	Total tons	Produced and consumed in same plant (tons)	Made for sale and for interplant transfer		Total tons	Produced and consumed in same plant (tons)	Made for sale and for interplant transfer	
			Tons	Value			Tons	Value
United States.....	5,847,905	1,848,122	3,999,783	\$301,051,791	² 6,652,257	² 1,875,868	4,776,389	\$362,756,026
Alabama.....	93,040	45,226	47,814	2,191,085	78,814	32,306	46,508	2,089,927
Arizona.....	(³)	(³)	1,683	134,535	(³)	(³)	(³)	(³)
California.....	120,464	16,953	103,511	8,478,984	135,151	10,193	124,958	10,399,071
Colorado.....	(³)	(³)	44,008	1,628,682	(³)	(³)	38,020	1,967,339
Connecticut.....	57,727	18,733	38,994	5,031,889	77,766	26,090	51,676	6,694,805
Florida.....	(³)	(³)	2,940	299,290	3,395	138	3,257	265,598
Georgia.....	39,862	14,405	25,457	1,369,259	52,150	22,868	29,282	1,780,878
Idaho.....	(³)	(³)	482	42,216	(³)	(³)	1,980	198,000
Illinois.....	783,598	326,673	456,925	27,209,446	1,013,197	464,952	548,245	32,058,328
Indiana.....	249,262	60,754	188,508	16,373,744	315,085	57,933	257,152	20,680,527
Iowa.....	125,442	78,341	47,101	3,686,760	153,438	101,528	51,910	3,247,530
Kansas.....	34,628	1,457	33,171	1,416,718	44,880	3,688	41,192	2,104,317
Kentucky.....	82,113	48,940	33,173	1,321,653	² 69,383	² 42,762	26,621	1,202,400
Louisiana.....	(³)	(³)	15,216	699,995	(³)	(³)	22,660	937,113
Maine.....	(³)	(³)	2,556	322,234	(³)	(³)	3,682	457,693
Maryland.....	65,169	25,193	39,976	2,161,309	² 58,108	² 18,503	39,605	2,418,039
Massachusetts.....	92,661	14,643	78,018	8,541,867	111,636	21,318	90,318	10,121,126
Michigan.....	1,114,240	282,061	832,179	78,873,187	1,112,711	90,907	1,021,804	98,101,745
Minnesota.....	76,546	16,699	59,847	3,119,227	86,664	21,115	65,549	3,697,348
Mississippi.....	(³)	(³)	1,544	107,104	(³)	(³)	(³)	(³)
Missouri.....	127,159	13,577	113,582	7,216,145	124,469	16,290	108,179	6,602,389
Montana.....	(³)	(³)	5,277	340,055	(³)	(³)	8,956	512,526
Nebraska.....	(³)	(³)	3,639	288,507	(³)	(³)	1,723	167,441
New Hampshire.....	3,244	692	2,552	305,779	(³)	(³)	4,488	536,353
New Jersey.....	148,216	48,360	99,856	9,809,366	176,697	67,489	109,208	10,695,186
New York.....	260,421	103,012	157,409	13,435,531	359,891	153,209	206,682	16,779,757
North Carolina.....	23,052	14,586	8,466	763,336	10,046	2,673	7,373	586,169
Ohio.....	696,572	152,138	544,434	43,388,140	769,764	186,543	583,221	48,122,531
Oklahoma.....	(³)	(³)	6,384	495,781	(³)	(³)	6,886	631,446
Oregon.....	9,933	1,560	8,373	695,796	9,325	2,033	7,292	765,186
Pennsylvania.....	972,716	293,876	678,840	35,532,807	1,148,468	266,384	882,084	49,295,221
Rhode Island.....	(³)	(³)	10,073	1,490,417	25,817	11,685	14,132	1,580,856
South Carolina.....	(³)	(³)	4,597	464,305	(³)	(³)	2,761	239,373
Tennessee.....	92,145	48,659	43,486	2,406,115	113,615	65,585	48,030	2,632,414
Texas.....	47,900	9,709	38,281	2,113,614	(³)	(³)	54,082	3,060,532
Utah.....	(³)	(³)	12,273	464,431	(³)	(³)	13,921	516,763
Vermont.....	7,067	287	6,780	1,195,718	(³)	(³)	(³)	(³)
Virginia.....	42,527	2,368	40,159	2,056,896	51,848	3,414	47,934	2,489,187
Washington.....	20,368	692	19,676	1,461,011	27,564	2,947	24,617	1,945,140
West Virginia.....	(³)	(³)	36,748	1,992,422	(³)	(³)	20,668	2,427,568
Wisconsin.....	252,593	151,083	101,510	11,878,392	257,094	137,572	119,522	12,424,587
Other States.....	209,150	57,445	4,281	238,053	265,781	45,743	31,215	2,315,165

¹ Includes data for gray-iron rolls for rolling mills and chilled-iron railway wheels, including wheels made on a conversion basis. The figures do not include the production of cast-iron pipe and fittings.

² Revised.

³ Included in figures for "Other States" to avoid disclosing, exactly or approximately, the production reported by individual establishments.

⁴ Because of a change in classification in some Michigan reports, the 1937 figures for "Produced and consumed" and "For sale and interplant transfer" are not comparable with those for 1939. The totals for 1939 and 1937, however, are comparable.

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	58,428	55,398	56,097	56,477	57,252	56,489	55,433	55,241	57,008	59,401	62,291	64,869	65,179
1937.....	73,993	70,598	73,194	75,405	76,555	78,566	77,826	76,919	76,591	76,076	74,809	68,350	63,528
Alabama.....	454	435	436	436	446	448	443	456	449	440	469	480	505
Arizona.....	152	157	164	166	147	140	133	149	145	152	160	188	155
California.....	2,410	2,318	2,330	2,290	2,300	2,303	2,299	2,310	2,372	2,493	2,629	2,669	2,623
Colorado.....	414	370	386	405	389	399	405	399	403	411	454	473	475
Connecticut.....	1,609	1,439	1,521	1,512	1,526	1,553	1,550	1,548	1,574	1,620	1,710	1,863	1,891
Florida.....	99	102	102	101	99	99	98	103	97	92	93	100	99
Georgia.....	582	568	565	578	563	559	550	565	584	597	623	615	602
Idaho.....	11	11	11	11	12	11	11	11	12	11	11	11	11
Illinois.....	5,128	4,840	4,941	4,940	5,004	4,947	4,914	4,942	4,977	5,175	5,495	5,759	5,605
Indiana.....	4,916	4,972	5,014	4,790	4,797	4,786	4,478	4,444	4,960	5,158	5,124	5,212	5,254
Iowa.....	711	653	684	698	718	699	709	703	741	720	739	750	715
Kansas.....	273	255	261	258	267	270	277	279	283	287	282	276	280
Kentucky.....	328	285	291	291	299	296	302	310	327	366	383	396	387
Louisiana.....	187	196	193	195	180	188	183	183	169	173	187	195	197
Maine.....	104	100	102	105	104	103	102	101	102	104	111	111	108

CENSUS OF MANUFACTURES: 1939

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939—Continued

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
Maryland.....	525	468	478	500	496	533	509	517	545	522	537	601	595
Massachusetts.....	2,384	2,204	2,246	2,254	2,286	2,309	2,305	2,267	2,270	2,377	2,593	2,743	2,758
Michigan.....	7,555	7,316	7,162	7,360	7,820	7,402	6,932	6,793	7,167	7,810	8,024	8,327	8,543
Minnesota.....	669	627	649	639	668	681	689	697	667	685	688	682	659
Missouri.....	1,522	1,433	1,374	1,448	1,448	1,464	1,461	1,463	1,538	1,577	1,673	1,702	1,687
Nebraska.....	32	29	30	31	31	32	32	33	33	33	35	36	34
New Hampshire.....	159	147	148	151	154	154	151	156	163	165	167	175	178
New Jersey.....	2,307	2,660	2,662	2,675	2,729	2,744	2,802	2,845	2,844	2,869	2,919	2,964	2,973
New York.....	3,581	3,458	3,504	3,451	3,476	3,428	3,395	3,424	3,496	3,592	3,810	3,928	4,010
North Carolina.....	304	292	287	288	287	291	291	285	309	316	323	338	335
Ohio.....	10,697	9,966	10,285	10,485	10,519	10,102	9,886	9,707	10,210	10,786	11,610	12,385	12,495
Oklahoma.....	187	188	197	186	187	186	186	187	176	181	187	192	189
Oregon.....	165	158	165	164	167	167	169	162	164	159	169	169	167
Pennsylvania.....	4,837	4,614	4,605	4,720	4,676	4,697	4,721	4,673	4,617	4,829	5,103	5,355	5,436
Rhode Island.....	276	253	249	252	235	247	258	267	277	293	317	327	337
South Carolina.....	148	138	144	143	143	145	143	146	143	150	161	161	160
Tennessee.....	671	648	633	626	647	646	630	676	709	668	668	766	771
Texas.....	746	720	723	730	755	742	752	768	746	759	748	746	757
Utah.....	96	95	96	92	91	94	98	84	92	97	102	103	106
Vermont.....	373	276	310	309	302	309	341	392	410	426	452	463	489
Virginia.....	613	598	616	605	615	590	570	595	594	600	665	655	655
Washington.....	402	374	395	394	378	401	387	392	412	407	428	435	425
West Virginia.....	143	124	132	138	137	136	134	144	156	157	154	154	153
Wisconsin.....	1,941	1,699	1,792	1,846	1,931	1,969	1,924	1,910	1,902	1,943	2,055	2,194	2,123

TABLE 7.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL, PURCHASED AS SUCH, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939 AND 1937

KIND	1939		1937	
	Tons (2,240 pounds)	Cost	Tons (2,240 pounds)	Cost
Pig iron.....	1,043,991	\$23,850,067	1,251,536	\$30,064,674
Iron and steel scrap, purchased as such.....	1,255,623	17,582,358	1,560,343	22,718,229

TABLE 8.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	1,161
Reporting expenditures for plant and equipment.....	671
Value of products:	
Total for the industry.....	\$209,719,754
Reporting expenditures for plant and equipment.....	171,034,457
Expenditures for plant and equipment:	
Total for the industry.....	5,427,013
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	1,542,828
Expenditures for new machinery and operating equipment.....	3,577,503
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	304,982
Expenditures unclassified.....	1,700

TABLE 9.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$21,866,574	\$23,639,917
Finished products.....	8,897,933	9,046,110
Materials, supplies, etc.....	12,968,641	14,593,807
End of year, total.....	26,369,852	25,887,117
Finished products.....	9,711,188	10,457,481
Materials, supplies, etc.....	16,658,664	15,429,636
Value of products for the industry, total.....	209,719,754	261,441,613
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	206,955,576	254,618,532
Value for establishments not reporting inventories.....	2,764,178	6,823,081

TABLE 10.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	1,161
Number of establishments reporting power equipment.....	1,151
Prime movers, aggregate:	
Number.....	150
Horsepower.....	18,671
Prime movers, driving generators, total—	
Number.....	62
Horsepower.....	13,273
Steam engines—	
Number.....	32
Horsepower.....	10,544
Diesel and semi-Diesel engines—	
Number.....	12
Horsepower.....	1,220
Other internal-combustion engines ² —	
Number.....	13
Horsepower.....	1,189
Hydroturbines and water wheels—	
Number.....	5
Horsepower.....	320
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	3,150
Prime movers not driving generators, total—	
Number.....	88
Horsepower.....	5,398
Steam engines—	
Number.....	36
Horsepower.....	2,075
Steam turbines—	
Number.....	6
Horsepower.....	555
Diesel and semi-Diesel engines—	
Number.....	9
Horsepower.....	648
Other internal-combustion engines ² —	
Number.....	32
Horsepower.....	1,865
Hydroturbines and water wheels—	
Number.....	5
Horsepower.....	255
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	280
Generators, kilowatt rating, total.....	8,798
Generators, driven by—	
Steam engines, kilowatt rating.....	6,980
Diesel and semi-Diesel engines, kilowatt rating.....	847
Other internal-combustion engines, ² kilowatt rating.....	756
Hydroturbines and water wheels, kilowatt rating.....	215
Generators, ordinarily idle (included above), kilowatt rating.....	2,030
Electric motors, total:	
Number.....	28,667
Horsepower.....	270,261
Driven by purchased energy—	
Number.....	27,251
Horsepower.....	254,418
Driven by energy generated in establishments reporting—	
Number.....	1,416
Horsepower.....	15,843
Electric energy (kilowatt-hours)—	
Generated in plant.....	7,869,160
Sold.....	189,646
Purchased.....	189,421,995

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

MALLEABLE-IRON CASTINGS

[A preliminary report for this industry was issued November 12, 1940]

Description of the industry.—This industry embraces establishments engaged primarily in the production of malleable-iron castings. Prior to 1939, the statistics for gray-iron and malleable-iron foundries were combined in one industry classification, but for 1939 they have been classified as separate industries. A segregation of the figures for 1937 has been made to obtain figures comparable with those for 1939. Comparable data for prior years are not available.

Detailed statistics of products.—Malleable-iron castings are made to a considerable extent in establishments classified in other industries, that incidentally operate foundry departments for production of malleable-iron castings for their own consumption in the further manufacture of such products as motor vehicles, stoves, hardware, pipe fittings, machinery, etc. Table 4, as presented, gives the total production of

malleable-iron castings regardless of industry classification. Table 5 gives the production of malleable-iron castings for those States which can be shown separately without disclosing, exactly or approximately, data reported by individual establishments.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939	83	18,041	\$21,555,489	\$17,950,681	\$53,450,770	\$35,500,089	13,057
1937	84	23,713	28,819,244	24,003,680	69,515,005	45,512,010	(4)

¹ See GENERAL EXPLANATIONS—Definition of establishment.
² See GENERAL EXPLANATIONS—Wage earners and wages.
³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.
⁴ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Connecticut	Illinois	Indiana	Michigan	New York	Ohio	Pennsylvania	Wisconsin	Other States ¹
Number of establishments ²	83	4	14	6	6	9	11	8	9	16
Proprietors and firm members	2						1			1
Persons reported by manufacturing establishments, total ³	20,186	693	3,497	2,184	3,361	1,500	2,861	1,877	1,478	2,644
Salaried officers of corporations ⁴	170	8	28	11	22	22	15	17	17	30
Manufacturing:										
Salaried employees ⁴	1,058	60	220	172	293	130	243	104	136	201
Wage earners (average for the year) ⁴	18,041	606	3,225	1,976	2,968	1,360	2,506	1,659	1,308	2,343
Distribution	246	19	20	11	55	27	20	7	9	69
Construction	65		4	14	33	3	8		2	1
Other	0								0	
Salaries and wages, total ⁴	\$20,415,115	\$926,564	\$4,005,713	\$2,854,383	\$4,452,720	\$1,927,219	\$3,601,020	\$2,101,064	\$2,168,058	\$3,387,150
Salaried officers ⁴	1,047,601	55,322	171,633	83,060	155,141	103,170	161,182	81,819	103,062	163,212
Manufacturing:										
Salaries ⁴	3,142,715	116,025	405,472	317,645	513,371	209,844	510,410	319,173	267,244	393,531
Wages ⁴	21,555,489	697,428	3,880,552	2,408,677	3,973,728	1,654,054	3,220,199	1,789,677	1,760,667	2,607,677
Distribution	575,484	57,789	44,549	32,241	60,177	53,543	50,814	30,995	32,127	201,249
Construction	86,698		7,607	12,860	44,312	5,708	12,421		2,400	1,400
Other	7,128								7,128	
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	17,950,681	380,837	2,796,381	2,176,444	3,542,167	1,358,195	3,021,356	1,208,046	1,309,155	1,978,100
Materials and supplies	14,055,843	260,232	2,210,067	1,733,032	2,831,634	1,070,357	2,382,433	980,239	1,060,925	1,526,924
Fuel	2,773,387	89,452	484,908	340,591	455,272	205,140	421,150	190,111	240,158	340,545
Purchased electric energy	1,030,498	29,453	101,346	95,490	255,261	81,067	163,612	115,998	92,092	96,179
Contract work	90,953	1,700		7,331		1,631	54,161	5,698	5,980	14,452
Value of products	53,450,770	1,763,055	9,636,179	5,969,943	8,667,359	4,095,462	8,228,170	4,333,122	4,635,993	6,721,507
Value added by manufacture ⁵	35,500,089	1,382,218	6,230,798	3,793,499	5,125,172	2,737,267	5,206,814	3,035,076	3,236,838	4,743,407

¹ California, 1 establishment; Colorado, 1; Delaware, 1; Iowa, 1; Massachusetts, 2; Minnesota, 1; Missouri, 1; New Hampshire, 1; New Jersey, 3; Rhode Island, 1; South Carolina, 1; Texas, 1; West Virginia, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Malleable-Iron Castings industry, all products, total value.....	\$53,450,770	\$69,515,605
Malleable-iron castings made in this industry (for sale and interplant transfer).....	43,621,960	59,275,589
Miscellaneous products not specified.....	1,139,784	
Other products (not classified in this industry).....	8,689,026	10,240,016
Malleable-iron castings made for sale and interplant transfer, aggregate value.....	58,897,990	79,770,962
Malleable-iron castings made in this industry (for sale and interplant transfer).....	43,621,960	59,275,589
Malleable-iron castings made as secondary products in other industries.....	15,276,030	20,495,373

¹ Value of malleable-iron castings, produced in this industry but further fabricated into finished products that are classified in other industries, and also gray-iron castings.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939				1937
	Produced in the industry	Produced in other industries within the Iron and Steel and Their Products, Except Machinery group	Produced in industries outside the Iron and Steel and Their Products, Except Machinery group	Aggregate	
Malleable-iron castings, total value ¹	\$43,621,960	\$4,817,563	\$10,458,467	\$58,897,990	\$79,770,962
Total tons (2,000 pounds).....	321,528	65,008	121,504	508,040	660,079
Made for sale and for interplant transfer:					
Tons.....	300,988	32,374	93,678	427,040	580,002
Value.....	\$43,621,960	\$4,817,563	\$10,458,467	\$58,897,990	\$79,770,962
Produced and consumed in same plant, tons ¹	20,540	32,634	27,826	81,000	80,077

¹ No value assigned to tonnage produced and consumed in same plant.

TABLE 5.—MALLEABLE - IRON CASTINGS — PRODUCTION, BY QUANTITY AND VALUE, BY STATES: 1939 AND 1937

[Tons, 2,000 pounds]

STATE	1939			1937				
	Total tons	Pro-duced and con-sumed in same plant	Made for sale and for inter-plant transfer	Total tons	Pro-duced and con-sumed in same plant	Made for sale and for inter-plant transfer		
United States.....	508,040	Tons 81,000	Tons 427,040	Value \$58,897,990	660,079	Tons 80,077	Tons 580,002	Value \$79,770,962
Connecticut.....	(¹)	(¹)	11,565	2,253,966	(¹)	(¹)	10,953	2,552,024
Illinois.....	81,265	12,288	68,977	9,601,558	132,486	21,847	110,639	14,690,054
Indiana.....	(¹)	(¹)	43,975	6,109,072	71,095	17,539	54,456	7,553,703
Michigan.....	143,567	26,150	117,417	12,597,044	162,263	13,101	149,162	15,783,977
New Jersey.....	(¹)	(¹)	3,217	778,433	(¹)	(¹)	5,840	1,416,136
New York.....	32,581	2,589	29,992	4,682,480	43,581	3,870	39,711	6,330,745
Ohio.....	81,955	8,934	73,021	9,994,181	100,864	754	100,110	13,646,315
Pennsylvania.....	32,850	12,524	20,326	3,441,587	40,851	4,252	36,599	5,735,592
Wisconsin.....	(¹)	(¹)	30,545	4,523,395	47,716	6,927	40,789	6,217,663
Other States.....	135,822	18,515	28,005	4,916,274	60,323	11,787	31,743	5,844,753

¹ Included in figures for "Other States" to avoid disclosing, exactly or approximately, the production reported by individual establishments.

TABLE 6.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL, PURCHASED AS SUCH BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939 AND 1937

KIND	1939		1937	
	Tons (2,240 pounds)	Cost	Tons (2,240 pounds)	Cost
Pig iron.....	231,253	\$5,267,002	325,865	\$7,562,164
Iron and steel scrap, purchased as such.....	136,453	2,284,947	150,178	2,866,199

TABLE 7.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	Septem-ber	October	Novem-ber	Decem-ber
United States:													
1939.....	18,041	16,807	17,036	16,789	16,817	16,429	15,981	16,249	16,743	17,597	20,428	22,521	23,100
1937.....	23,713	24,728	25,763	26,302	26,379	26,449	24,987	23,659	23,038	22,698	21,712	20,097	18,746
Connecticut.....	606	560	565	559	562	589	563	567	572	571	676	749	743
Illinois.....	3,225	3,013	3,238	3,185	3,142	2,983	2,899	2,880	2,912	3,134	3,597	3,815	3,906
Indiana.....	1,976	1,796	1,876	1,840	1,783	1,833	1,868	1,778	1,880	1,935	2,239	2,474	2,416
Michigan.....	2,958	3,017	2,852	2,724	2,770	2,599	2,336	2,585	2,916	2,848	3,162	3,698	3,986
New Jersey.....	730	723	714	719	722	713	706	687	693	720	793	787	786
New York.....	1,399	1,228	1,252	1,232	1,224	1,173	1,143	1,216	1,279	1,380	1,705	1,958	1,998
Ohio.....	2,566	2,490	2,465	2,447	2,453	2,336	2,217	2,238	2,304	2,568	3,011	3,119	3,117
Pennsylvania.....	1,659	1,498	1,515	1,523	1,536	1,545	1,537	1,557	1,425	1,474	1,768	2,196	2,335
Wisconsin.....	1,308	1,121	1,161	1,168	1,159	1,154	1,155	1,139	1,178	1,307	1,622	1,760	1,773

TABLE 8.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	83
Reporting expenditures for plant and equipment.....	67
Value of products:	
Total for the industry.....	\$53,450,770
Reporting expenditures for plant and equipment.....	48,932,248
Expenditures for plant and equipment:	
Total for the industry.....	1,978,296
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	509,099
Expenditures for new machinery and operating equipment.....	1,171,127
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	298,070

TABLE 9.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$8,082,710	\$9,250,532
Finished products.....	3,959,112	4,242,848
Materials, supplies, etc.....	4,123,598	5,007,684
End of year, total.....	9,924,500	10,135,668
Finished products.....	4,390,968	4,862,984
Materials, supplies, etc.....	5,533,532	5,272,684
Value of products for the industry, total.....	53,450,770	69,515,605
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	53,311,243	69,400,442
Value for establishments not reporting inventories.....	139,527	115,163

TABLE 10.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 ¹

	1939
Number of establishments.....	83
Number of establishments reporting power equipment.....	80
Prime movers, aggregate:	
Number.....	47
Horsepower.....	13,057
Prime movers, driving generators, total—	
Number.....	30
Horsepower.....	9,467

TABLE 10.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 ¹—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators—Continued.	
Steam engines—	
Number.....	22
Horsepower.....	7,807
Steam turbines—	
Number.....	4
Horsepower.....	1,250
Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	125
Other internal-combustion engines ² —	
Number.....	1
Horsepower.....	150
Hydroturbines and water wheels—	
Number.....	2
Horsepower.....	135
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	1,275
Prime movers not driving generators, total—	
Number.....	17
Horsepower.....	3,590
Steam engines—	
Number.....	15
Horsepower.....	3,015
Internal-combustion engines, ² other than Diesel and semi-Diesel—	
Number.....	2
Horsepower.....	575
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	60
Generators, kilowatt rating, total.....	6,631
Generators, driven by—	
Steam engines, kilowatt rating.....	5,400
Steam turbines, kilowatt rating.....	931
Diesel and semi-Diesel engines, kilowatt rating.....	85
Other internal-combustion engines, ² kilowatt rating.....	125
Hydroturbines and water wheels, kilowatt rating.....	90
Generators, ordinarily idle (included above), kilowatt rating.....	835
Electric motors, total:	
Number.....	7,828
Horsepower.....	81,430
Driven by purchased energy—	
Number.....	6,740
Horsepower.....	72,446
Driven by energy generated in establishments reporting—	
Number.....	1,088
Horsepower.....	8,984
Electric energy (kilowatt-hours):	
Generated in plant.....	7,996,582
Purchased.....	78,643,419

¹ Comparable data for 1929 not available.

² Gas, gasoline, etc.

STEEL CASTINGS

[A preliminary report for this industry was issued October 21, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the production of steel castings. This classification does not, however, cover the production of foundry departments operated in connection with steel works and rolling mills. For censuses prior to 1939 the production of steel castings was treated as part of the "Steel works and rolling mills" industry. A special tabulation of the 1937 figures has been prepared in order to show comparable data.

The total production as given in table 4 is substantially complete for all industries for tonnage made for sale and for interplant transfer. The tonnage produced and consumed in further manufacture for certain establishments classified in a few industries was not called for prior to 1939 and to this extent the tonnage consumed in works for 1937 is incomplete. It is believed that the tonnage not called for would not mate-

rially increase the total. Table 5 gives the production of steel castings for those States which can be shown separately without disclosing, exactly or approximately, data reported by individual establishments.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	164	30,088	\$41,941,774	\$45,232,070	\$135,466,423	\$90,234,353	48,815
1937.....	145	41,299	62,351,378	63,795,660	184,227,710	120,432,050	(⁴)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Indiana	Michigan	Missouri	New York	Ohio	Pennsylvania	Wisconsin	Other States ¹
Number of establishments ²	164	17	15	6	11	6	7	23	31	11	37
Proprietors and firm members.....	6	4									2
Persons reported by manufacturing establishments, total ³	35,567	1,391	6,282	2,371	1,651	1,116	1,652	5,360	8,661	3,087	3,963
Salaried officers of corporations ⁴	335	20	24	15	31	14	15	48	66	36	66
Manufacturing:											
Salaried employees ⁴	3,957	133	721	229	147	93	266	645	912	384	427
Wage earners (average for the year) ⁴	30,088	1,193	5,401	2,017	1,426	984	1,351	4,525	7,312	2,516	3,360
Distribution.....	875	38	69	76	43	24	12	133	256	135	89
Construction.....	258	7	50	34	3		7	35	105		17
Other.....	54		17		1	1	1	4	10	16	4
Salaries and wages, total ⁴	\$55,545,434	\$2,248,518	\$9,544,722	\$4,010,030	\$2,566,658	\$1,409,185	\$2,600,214	\$8,649,921	\$13,403,880	\$5,364,655	\$5,747,651
Salaried officers ⁴	2,591,831	155,458	180,639	154,301	189,163	91,167	74,482	442,069	508,311	345,232	451,009
Manufacturing:											
Salaries ⁴	8,428,580	305,931	1,370,338	573,690	346,379	207,480	531,186	1,421,752	1,953,318	823,220	895,276
Wages.....	41,941,774	1,643,143	7,746,538	3,078,217	1,907,814	1,052,161	1,936,236	6,400,671	10,116,514	3,881,762	4,178,718
Distribution.....	2,205,011	129,646	178,087	137,297	119,682	57,067	37,974	347,738	703,660	302,775	191,085
Construction.....	325,960	14,340	51,804	66,525	2,840		18,570	32,716	112,102		27,063
Other.....	52,278		17,316		780	1,300	1,766	4,975	9,975	11,666	4,500
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	45,232,070	1,699,550	6,165,897	3,301,679	1,768,034	993,761	2,341,463	7,721,105	10,629,080	5,407,238	5,204,263
Materials and supplies.....	36,031,250	1,387,931	4,968,991	2,659,215	1,241,271	803,069	1,873,534	6,243,272	8,339,893	4,562,773	3,951,301
Fuel.....	3,717,140	37,097	605,052	332,130	122,531	120,054	248,257	624,319	1,089,551	267,511	270,338
Purchased electric energy.....	4,896,383	272,074	562,311	310,334	401,090	70,638	214,820	820,240	964,730	438,795	841,321
Contract work.....	587,297	2,448	29,543		2,842		4,822	33,274	234,906	138,159	141,303
Value of products.....	135,466,423	5,205,804	25,015,128	9,921,660	5,406,412	2,989,224	6,565,591	21,248,901	31,137,477	13,156,829	14,819,397
Value added by manufacture ⁴	90,234,353	3,506,254	18,849,231	6,619,981	3,638,378	1,995,463	4,224,128	13,527,796	20,508,397	7,749,591	9,615,134

¹ Alabama, 1 establishment; Arkansas, 1; Colorado, 2; Connecticut, 2; Delaware, 2; Florida, 1; Georgia, 1; Iowa, 2; Kansas, 1; Louisiana, 1; Massachusetts, 3; Minnesota, 2; New Jersey, 3; Oklahoma, 1; Oregon, 3; Tennessee, 2; Texas, 3; Utah, 1; Washington, 3; West Virginia, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Steel Castings industry, all products, total value.....	\$135,466,423	\$184,227,710
Steel castings made in this industry (for sale and interplant transfer).....	110,039,559	156,869,977
Steel rolls for rolling mills and miscellaneous products.....	3,952,576	
Receipts for contract and repair work.....	645,844	
Other products (not classified in this industry).....	120,828,444	27,357,733
Steel castings made for sale and interplant transfer, aggregate value.....	129,725,688	199,362,702
Steel castings made in this industry (for sale and interplant transfer).....	110,039,559	156,869,977
Steel castings made in Steel Works and Rolling Mills industry.....	14,684,226	32,926,063
Steel castings made as secondary products in other industries.....	25,001,903	9,566,662

¹ Gray-iron castings, malleable-iron castings, machinery, and iron rolls for rolling mills, etc.

² Includes \$2,488,388, the value of steel castings made in other industries of the "Iron and steel and their products, except machinery" group (exclusive of the "Steel works and rolling mills" industry) and \$2,513,515, the value of products made in other industries outside the iron and steel group.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Aggregate	
Total value ¹	\$110,039,559	\$19,686,129	\$129,725,688	\$199,362,702
Total tons.....	547,963	185,716	733,679	1,249,164
Steel castings:				
Made for sale—				
Tons ²	497,699	71,271	568,970	1,032,648
Value ²	\$106,874,305	\$15,072,721	\$121,947,026	\$190,534,246
Interplant transfer—				
Tons.....	17,964	30,846	48,810	59,045
Value.....	\$3,165,254	\$4,613,408	\$7,778,662	\$8,828,456
Produced and consumed in same plant, tons ¹	32,300	83,599	115,899	157,471
PRODUCTION BY PROCESS				
Open-hearth:				
Basic, tons.....	188,503	46,859	235,362	484,795
Acid, tons.....	198,197	93,036	291,233	381,764
Bessemer, tons.....	2,314	2,150	4,464	8,096
Electric or electrically refined and crucible, tons.....	218,949	39,611	258,560	348,909
Process not reported by kind, tons.....		4,060	4,060	25,600

¹ Total value is that of the "Made for sale" and "Interplant transfer" tonnage. No value is assigned to the "Produced and consumed" tonnage.

² Includes the production of heat-corrosion resistant alloy castings amounting to 6,343 tons, valued at \$6,734,899 for 1939 and 4,493 tons, valued at \$4,837,649 (as far as separately reported) for 1937.

³ Made in "Steel works and rolling mills" industry.

TABLE 5.—STEEL CASTINGS—PRODUCTION, BY QUANTITY AND VALUE, BY STATES: 1939 AND 1937

[Tons, 2,240 pounds]					
STATES	1939				1937
	Total tons	Pro-duced and con-sumed in same plant	Made for sale and for interplant transfer		
United States.....	733,679	Tons 115,899	Tons 617,780	Value \$129,725,688	Tons 1,249,164
Heat-corrosion, resistant alloy castings.....	6,343	-----	6,343	6,734,899	4,493
Steel castings, total.....	727,336	115,899	611,437	122,990,789	1,244,671
Alabama, Georgia, and Tennessee.....	10,575	2,421	8,154	1,253,291	19,835
California.....	32,703	2,357	30,346	7,488,977	42,907
Colorado.....					
Illinois.....					
Indiana.....					
	(1)	(1)	90,931	20,872,787	193,966
	51,796	17,450	34,346	6,279,328	73,093

TABLE 5.—STEEL CASTINGS—PRODUCTION, BY QUANTITY AND VALUE, BY STATES: 1939 AND 1937—Continued

[Tons, 2,240 pounds]						
STATES	1939				1937	
	Total tons	Pro-duced and con-sumed in same plant	Made for sale and for interplant transfer			
		<i>Tons</i>	<i>Tons</i>	<i>Value</i>	<i>Tons</i>	
Louisiana.....	1, 603	(1)	1, 603	\$286, 832	2, 637	
Michigan.....	(1)	(1)	23, 852	5, 516, 586	35, 896	
New York.....	43, 739	1, 801	41, 938	6, 744, 042	75, 150	
Ohio.....	131, 525	4, 359	127, 166	21, 732, 533	197, 026	
Oregon and Washington.....	(1)	(1)	5, 904	2, 141, 168	10, 745	
Pennsylvania.....	218, 552	63, 863	154, 689	30, 520, 882	365, 601	
Texas.....	(1)	(1)	5, 904	1, 374, 318	6, 464	
Wisconsin.....	(1)	(1)	34, 739	7, 108, 041	56, 734	
Other States.....	2 236, 843	2 23, 648	51, 865	11, 672, 004	156, 556	

¹ Withheld to avoid disclosing, exactly or approximately, data reported by individual establishments.

² Includes data for States covered by footnote 1.

TABLE 6.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Number of establishments	Quantity	Cost
Iron ore.....	79	Long tons 6,805	\$66,823
Pig iron.....	113	131,333	3,075,185
Ferro-alloys (except manganese).....	112	10,205	1,373,748
Ferro-manganese.....	121	1,602	1,071,480
Scrap rails, axles, bars, etc.....	16	30,987	574,627
Other scrap iron and steel.....	145	484,468	8,275,360
Aluminum.....	79	Pounds 681,734	134,810
Nickel.....	91	2,630,165	864,890
Copper.....	17	82,040	8,893
Copper scrap.....	8	26,329	2,531
Nonferrous alloys.....	12	374,791	50,987

TABLE 7.—STEEL FURNACES (ACTIVE ESTABLISHMENTS), NUMBER OF ESTABLISHMENTS, NUMBER OF FURNACES, AND CAPACITY, BY STATES: 1939

[This table presents statistics on equipment for active establishments classified in the "Steel castings" industry and therefore does not include equipment of establishments classified in other industries which produce castings as secondary products]

STATE	Number of establishments	Number of furnaces	DAILY CAPACITY (24 HOURS) [Tons, 2,240 pounds]		
			Total	Electric and crucible	Open-hearth and Bessemer
Total.....	163	316	10,594	4,090	6,504
Alabama, Florida, and Georgia.....	3	4	47	47	
Arkansas, Oklahoma, and Louisiana.....	3	4	50	(1)	(1)
California.....	16	30	646	(1)	(1)
Colorado and Utah.....	3	4	86	86	
Connecticut and Massachusetts.....	5	10	166	(1)	(1)
Delaware and New Jersey.....	5	8	47	(1)	(1)
Illinois.....	15	36	1,908	638	1,270
Indiana.....	6	14	648	90	558
Iowa, Kansas, and Minnesota.....	5	9	196	(1)	(1)
Michigan.....	11	18	474	329	145
Missouri.....	6	10	318	(1)	(1)
New York.....	7	14	683	213	480
Ohio.....	23	45	1,684	652	1,032
Oregon.....	3	6	40	40	
Pennsylvania.....	31	64	2,612	438	2,174
Tennessee and West Virginia.....	4	7	241	(1)	(1)
Texas.....	3	4	71	71	
Washington.....	3	6	33	33	
Wisconsin.....	11	23	634	(1)	(1)

¹ Withheld to avoid disclosing, exactly or approximately, the capacity of individual establishments.

TABLE 8.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	30,088	26,288	27,043	26,743	27,367	27,425	27,798	28,032	28,590	28,970	34,288	38,901	39,605
1937	41,299	37,323	39,831	42,154	44,166	45,134	45,686	45,325	44,991	43,637	39,489	35,351	32,504
California	1,193	1,125	1,133	1,136	1,107	1,114	1,140	1,179	1,167	1,233	1,296	1,359	1,330
Illinois	5,401	4,577	4,598	4,698	4,941	5,022	5,178	5,055	5,090	5,188	6,020	7,264	7,184
Indiana	2,017	1,810	1,904	1,871	1,838	1,821	1,800	1,811	1,816	1,962	2,306	2,589	2,679
Massachusetts	266	231	224	230	228	219	229	247	244	257	310	372	403
Michigan	1,426	1,287	1,320	1,310	1,335	1,366	1,380	1,386	1,374	1,366	1,515	1,679	1,800
Missouri	984	887	689	867	860	968	964	892	866	866	1,133	1,387	1,403
New Jersey	310	272	278	283	280	286	290	307	313	317	343	376	380
New York	1,351	1,018	1,028	1,084	1,082	1,172	1,225	1,168	1,211	1,237	1,821	2,022	2,143
Ohio	4,525	3,892	4,023	4,050	4,041	4,026	3,993	4,011	4,176	4,212	5,522	6,143	6,206
Oregon	295	277	280	284	284	289	296	296	293	299	313	317	315
Pennsylvania	7,312	6,342	6,921	6,282	6,542	6,329	6,580	6,923	7,198	7,199	8,484	9,391	9,550
Wisconsin	2,516	2,308	2,382	2,413	2,488	2,500	2,470	2,410	2,369	2,406	2,660	2,861	2,931

TABLE 9.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	164
Reporting expenditures for plant and equipment	143
Value of products:	
Total for the industry	\$135,466,423
Reporting expenditures for plant and equipment	130,035,604
Expenditures for plant and equipment:	
Total for the industry	4,291,268
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	1,284,962
Expenditures for new machinery and operating equipment	2,564,473
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	128,542
Expenditures unclassified	13,291

TABLE 10.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$17,245,532	\$17,996,746
Finished products	3,774,267	4,140,778
Materials, supplies, etc.	13,471,265	13,855,968
End of year, total	23,824,851	20,661,161
Finished products	4,564,496	4,279,388
Materials, supplies, etc.	19,260,355	16,381,773
Value of products for the industry, total	135,466,423	184,227,710
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	135,411,533	184,015,977
Value for establishments not reporting inventories	54,890	211,733

TABLE 11.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments	164
Number of establishments reporting power equipment	163
Prime movers, aggregate:	
Number	137
Horsepower	48,815
Prime movers, driving generators, total—	
Number	60
Horsepower	33,645

TABLE 11.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators—Continued.	
Steam engines—	
Number	41
Horsepower	16,349
Steam turbines—	
Number	11
Horsepower	13,851
Diesel and semi-Diesel engines—	
Number	3
Horsepower	2,720
Other internal-combustion engines ² —	
Number	5
Horsepower	725
Prime movers, driving generators, ordinarily idle (included above), horsepower	9,127
Prime movers not driving generators, total—	
Number	77
Horsepower	15,170
Steam engines—	
Number	43
Horsepower	13,005
Steam turbines—	
Number	11
Horsepower	1,634
Diesel and semi-Diesel engines—	
Number	1
Horsepower	68
Other internal-combustion engines ² —	
Number	22
Horsepower	463
Prime movers not driving generators, ordinarily idle (included above), horsepower	22
Generators, kilowatt rating, total	23,070
Generators, driven by—	
Steam engines, kilowatt rating	10,916
Steam turbines, kilowatt rating	9,750
Diesel and semi-Diesel engines, kilowatt rating	1,855
Other internal-combustion engines ² , kilowatt rating	549
Generators, ordinarily idle (included above), kilowatt rating	6,166
Electric motors, total:	
Number	21,004
Horsepower	272,702
Driven by purchased energy—	
Number	17,284
Horsepower	222,100
Driven by energy generated in establishments reporting—	
Number	3,720
Horsepower	50,602
Electric energy (kilowatt-hours) ³ :	
Generated in plant	33,032,825
Sold	49,764
Purchased	450,836,485

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.³ Includes energy used in electric furnaces.

CAST-IRON PIPE AND FITTINGS

[A preliminary report for this industry was issued November 19, 1940]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of cast-iron pipe and fittings for gas, water, sewage,

etc. It has little relation to the manufacture of wrought-iron and steel pipe.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1909 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939	74	16,488	\$17,483,095	\$28,013,997	\$65,079,052	\$37,065,055	6,942
1937	75	17,580	18,082,880	25,441,396	61,118,463	35,677,067	(7)
1935	71	13,543	10,370,393	14,809,837	37,870,081	23,060,244	(7)
1933	71	9,454	5,847,187	8,991,820	20,915,752	11,923,932	(7)
1931	78	16,066	14,558,947	20,977,433	47,937,502	26,960,069	(7)
1929	72	19,741	22,551,778	34,289,365	80,260,550	45,971,185	8,205
1927	82	22,892	25,982,196	48,224,970	95,088,622	40,863,662	10,771
1925	77	23,033	27,438,033	48,846,592	100,919,173	52,072,581	10,779
1923	73	21,576	25,019,953	48,804,425	92,674,088	43,869,663	11,805
1921	70	12,496	13,135,992	23,897,020	44,321,548	20,424,528	(7)
1919	59	12,625	14,705,398	25,386,552	50,235,101	24,848,549	11,501
1914	59	12,557	7,075,976	16,930,141	26,659,365	9,729,224	17,686
1909 ⁵	52	12,228	6,502,338	18,884,342	29,153,723	10,269,381	16,950

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ The figures for years prior to 1935 do not include the cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Revised.

⁶ Data not available.

⁷ Not called for on schedule.

⁸ No comparable data for years prior to 1909.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Alabama	California	New Jersey	New York	Ohio	Pennsylvania	Tennessee	Other States ¹
Number of establishments ²	74	24	5	6	6	5	10	3	15
Proprietors and firm members	3	1	1						1
Persons reported by manufacturing establishments, total ³	18,051	8,441	776	2,573	380	716	1,449	1,257	2,458
Salaried officers of corporations ⁴	112	25	8	12	13	4	22	3	25
Manufacturing:									
Salaried employees ⁵	1,109	457	61	240	24	54	76	56	141
Wage earners (average for the year) ⁶	16,488	7,847	699	2,247	341	652	1,334	1,180	2,187
Distribution	304	78	7	74	2	6	17	18	102
Construction	8	6							2
Other	30	28	1						1
Salaries and wages, total ⁷	\$21,176,879	\$3,738,918	\$1,026,090	\$3,861,078	\$443,430	\$1,002,939	\$1,710,900	\$1,399,117	\$2,994,407
Salaried officers ⁸	749,640	138,928	39,338	167,841	57,530	34,800	71,568	8,400	231,235
Manufacturing:									
Salaries ⁹	2,241,604	906,942	96,656	542,616	40,633	106,130	129,128	122,834	296,665
Wages	17,483,095	7,490,057	880,136	2,940,165	343,062	844,651	1,473,481	1,221,914	2,289,629
Distribution	618,617	122,618	9,460	210,456	2,205	17,358	36,723	45,969	173,828
Construction	14,878	12,878							2,000
Other	69,045	67,495	500						1,050
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	28,013,997	12,982,208	1,268,935	5,138,359	431,788	1,247,744	1,720,492	1,414,869	3,809,602
Materials and supplies	24,747,129	11,662,060	1,103,968	4,442,479	355,267	1,045,175	1,516,526	1,256,314	3,365,340
Fuel	2,451,066	966,034	145,083	507,203	59,698	140,611	162,546	121,678	348,213
Purchased electric energy	770,255	354,114	18,884	154,735	14,854	53,322	41,420	36,877	96,049
Contract work	45,547		1,000	33,942	1,969	8,636			
Value of products	65,079,052	30,662,008	2,622,325	10,847,319	1,053,866	3,515,372	4,055,288	3,324,259	8,998,615
Value added by manufacture ¹⁰	37,065,055	17,679,800	1,353,360	5,708,960	622,078	2,267,628	2,334,796	1,909,390	5,189,013

¹ Georgia, 2 establishments; Maryland, 2; Massachusetts, 1; Michigan, 1; Minnesota, 1; Missouri, 1; North Carolina, 1; Texas, 2; Utah, 1; Virginia, 3.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

CENSUS OF MANUFACTURES: 1939

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Cast-Iron Pipe and Fittings industry, all products, total value.....	\$65, 079, 052	\$61, 118, 463	\$80, 260, 550
Cast-iron pipe and fittings made in this industry.....	60, 247, 985	54, 997, 967	74, 615, 420
Miscellaneous products not specified.....	1, 326, 044	6, 120, 496	5, 645, 130
Other products (not classified in this industry).....	1 3, 505, 023		
Cast-iron pipe and fittings, aggregate value.....	69, 387, 025	66, 211, 862	85, 890, 086
Cast-iron pipe and fittings made in this industry.....	60, 247, 985	54, 997, 967	74, 615, 420
Cast-iron pipe and fittings made as secondary products in other industries.....	9, 139, 040	11, 213, 895	11, 274, 666

¹ Chiefly value of gray-iron castings and malleable-iron pipe fittings.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939	1937	1929
Aggregate value.....	\$69, 387, 025	\$66, 211, 862	\$85, 890, 086
Quantity reported ¹ :			
Tons (2,000 pounds).....	1, 264, 329	1, 098, 413	1, 736, 207
Value.....	\$68, 411, 750	\$58, 363, 210	\$78, 296, 375
Quantity not reported, value.....	\$975, 275	\$7, 848, 652	\$7, 593, 711
Pipe, total value.....	\$45, 485, 432	\$39, 989, 349	(²)
Bell and spigot pipe:			
Tons.....	692, 000	628, 431	1, 222, 695
Value.....	\$32, 271, 431	\$29, 267, 541	\$44, 706, 517
Flanged pipe:			
Tons.....	9, 186	11, 172	22, 473
Value.....	\$689, 765	\$760, 742	\$1, 183, 873
Culvert pipe:			
Tons.....	7, 533	10, 070	21, 391
Value.....	\$338, 594	\$397, 562	\$1, 108, 859
Soil and plumbers' pipe:			
Tons.....	294, 918	244, 704	³ 357, 626
Value.....	\$12, 185, 642	\$9, 563, 504	⁴ \$18, 762, 849

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
Fittings, total value.....	\$23, 901, 593	\$26, 222, 513	(²)
Soil and plumbers' pipe fittings separately reported:			
Quantity reported—			
Tons.....	121, 636	102, 280	(⁴)
Value.....	\$7, 476, 920	\$6, 244, 555	
Quantity not reported, value.....	\$28, 849	\$329, 892	
Gas and water pipe fittings separately reported:			
Quantity reported—			
Tons.....	35, 719	29, 070	(⁴)
Value.....	\$3, 480, 607	\$3, 124, 842	
Quantity not reported, value.....	\$44, 246	\$706, 419	
Other cast-iron pipe fittings (screwed, flanged, etc.) and those not reported separately by kind:			
Quantity reported—			
Tons.....	103, 337	72, 686	112, 022
Value.....	\$11, 968, 791	\$9, 004, 464	\$12, 534, 277
Quantity not reported, value.....	\$902, 180	\$6, 812, 341	\$7, 593, 711

¹ Includes the following quantities reported as cast by centrifugal process: 1939, 425,189 tons; 1937, 346,644 tons; 1929, 334,670 tons.

² No comparable data.

³ Includes both soil and plumbers' pipe and soil and plumbers' pipe fittings, not reported separately.

⁴ Included with soil and plumbers' pipe; not reported separately.

TABLE 5.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL, PURCHASED AS SUCH, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939 AND 1937

KIND	1939		1937	
	Tons (2,240 pounds)	Cost	Tons (2,240 pounds)	Cost
Pig iron.....	678, 322	\$11, 802, 340	633, 802	\$10, 926, 427
Iron and steel scrap, purchased as such.....	467, 149	6, 753, 043	405, 045	6, 404, 536

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	16, 488	15, 538	15, 743	15, 871	15, 918	16, 150	16, 277	16, 818	17, 022	16, 942	17, 289	17, 158	17, 132
1937 ¹	17, 580	17, 664	17, 762	18, 289	19, 047	18, 878	18, 529	18, 077	17, 819	16, 948	16, 456	16, 381	15, 110
1929.....	19, 741	19, 317	20, 147	19, 854	19, 995	20, 372	20, 462	20, 604	20, 871	20, 680	19, 337	17, 957	17, 344
Alabama.....	7, 847	7, 189	7, 437	7, 477	7, 520	7, 591	7, 684	8, 027	8, 204	8, 140	8, 213	8, 346	8, 341
California.....	699	645	658	657	644	684	666	703	705	726	762	777	760
New Jersey.....	2, 247	2, 075	2, 151	2, 168	2, 221	2, 248	2, 267	2, 302	2, 308	2, 227	2, 317	2, 348	2, 331
New York.....	341	330	323	314	315	324	331	336	362	349	372	359	375
Ohio.....	652	779	784	742	618	624	618	619	606	607	605	616	606
Pennsylvania.....	1, 334	1, 331	1, 319	1, 319	1, 339	1, 334	1, 355	1, 387	1, 399	1, 412	1, 467	1, 181	1, 171
Tennessee.....	1, 180	1, 152	1, 136	1, 147	1, 189	1, 191	1, 190	1, 195	1, 176	1, 180	1, 201	1, 200	1, 198

¹ Revised.

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	74
Reporting expenditures for plant and equipment.....	51
Value of products:	
Total for the industry.....	\$65,079,052
Reporting expenditures for plant and equipment.....	54,397,656
Expenditures for plant and equipment:	
Total for the industry.....	1,132,821
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	259,916
Expenditures for new machinery and operating equipment.....	866,193
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	6,712

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$13,983,355	\$14,295,841
Finished products.....	8,406,405	7,911,767
Materials, supplies, etc.....	5,576,950	6,384,074
End of year, total.....	13,859,225	17,507,678
Finished products.....	7,572,636	10,283,750
Materials, supplies, etc.....	6,286,589	7,223,928
Value of products for the industry, total.....	65,079,052	61,118,463
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	65,079,052	60,327,641
Value for establishments not reporting inventories.....		790,822

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	74	72
Number of establishments reporting power equipment.....	72	72
Prime movers, aggregate:		
Number.....	31	45
Horsepower.....	6,942	8,205
Prime movers, driving generators, total—		
Number.....	19	145
Horsepower.....	5,302	18,205

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers driving generators—Continued.		
Steam engines—		
Number.....	12	139
Horsepower.....	3,109	15,822
Steam turbines—		
Number.....	4	14
Horsepower.....	1,798	12,133
Other internal-combustion engines ¹ —		
Number.....	2	
Horsepower.....	195	
Hydroturbines and water wheels—		
Number.....	1	12
Horsepower.....	200	1250
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	1,982	
Prime movers not driving generators, total—		
Number.....	12	
Horsepower.....	1,640	
Steam engines—		
Number.....	10	(²)
Horsepower.....	865	
Diesel and semi-Diesel engines—		
Number.....	2	
Horsepower.....	775	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	290	
Generators, kilowatt rating, total.....	3,732	5,544
Generators, driven by—		
Steam engines, kilowatt rating.....	2,072	
Steam turbines, kilowatt rating.....	1,310	(³)
Other internal-combustion engines, ² kilowatt rating.....	200	
Hydroturbines and water wheels, kilowatt rating.....	150	
Generators, ordinarily idle (included above), kilowatt rating.....	1,355	(⁴)
Electric motors, total:		
Number.....	5,927	4,334
Horsepower.....	68,507	69,066
Driven by purchased energy—		
Number.....	5,265	3,829
Horsepower.....	59,855	61,552
Driven by energy generated in establishments reporting—		
Number.....	662	505
Horsepower.....	8,652	7,514
Electric energy (kilowatt-hours):		
Generated in plant.....	4,067,880	(⁴)
Purchased.....	55,646,668	42,249,992

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

TIN CANS AND OTHER TINWARE NOT ELSEWHERE CLASSIFIED

A preliminary report for this industry was issued February 11, 1941]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments engaged primarily in the manufacture of packers' cans, general line cans, plain and decorated cans, pails, boxes, and packages; milk and ice-cream cans, house-

hold and cooking tinware, and finished stamped tinware not elsewhere classified. Tinware departments operated by establishments that manufacture cans for use as containers for their own products are also classified in this industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1904 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939	248	31,770	\$36,397,817	\$249,044,215	\$372,616,014	\$123,571,799	12,674
1937	224	33,145	37,194,128	245,110,322	358,796,401	113,686,079	(9)
1935	204	27,484	27,825,664	206,117,726	292,388,012	86,270,286	(9)
1933	194	23,343	22,692,907	137,046,144	207,946,457	70,900,313	(9)
1931	199	25,271	27,977,932	149,121,078	223,634,271	74,513,193	(9)
1929	232	31,497	38,173,246	194,986,803	296,901,426	101,914,623	14,620
1927	236	29,721	35,000,822	169,421,340	253,478,691	84,057,351	14,133
1925	221	29,901	34,391,598	175,778,593	260,359,961	84,581,368	16,544
1923	241	30,511	32,816,010	135,980,053	215,971,256	79,991,203	(9)
1921	244	22,711	24,595,432	108,747,954	168,304,813	59,556,859	(9)
1919	301	34,386	34,493,399	165,170,736	233,964,000	68,793,264	12,540
1914	294	22,584	12,217,359	53,840,817	81,930,880	28,090,063	11,305
1909	318	19,754	8,675,257	39,272,571	58,814,323	19,541,752	(9)
1904 ⁵	377	16,919	6,842,491	26,248,253	41,892,809	15,644,556	(9)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² Figures for years prior to 1935 do not include cost of contract work.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ Not called for on schedule.

⁵ Data not available.

² See GENERAL EXPLANATIONS—Wage earners and wages.

⁷ No comparable data for 1899.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Maryland	Massachusetts	Missouri	New Jersey	New York	Ohio	Pennsylvania	Texas	Washington	Wisconsin	Other States ¹
Number of establishments ²	248	22	35	19	8	9	13	41	12	17	9	5	5	53
Proprietors and firm members	33	5	2	1	1	1	10	10	7	1	1	1	1	5
Persons reported by manufacturing establishments, total ³	38,013	3,493	8,740	4,514	559	845	3,596	4,286	1,783	3,019	1,221	437	305	5,216
Salaried officers of corporations ⁴	176	29	12	9	2	5	53	15	15	2	2	2	2	30
Manufacturing: Salaried employees ⁴	4,710	544	1,174	489	99	142	373	409	133	309	173	58	22	785
Wage earners (average for the year) ⁴	31,770	2,714	7,412	3,925	413	670	3,153	3,561	1,584	2,426	1,000	375	269	4,269
Distribution	819	96	89	84	36	21	51	113	26	177	25	2	8	91
Construction	519	138	30	4	2	10	14	148	25	90	21	1	1	37
Other	19	1	6					2		2			4	4
Salaries and wages, total ⁵	\$49,832,171	\$5,405,527	\$11,589,513	\$5,532,047	\$740,596	\$1,078,128	\$4,616,553	\$5,636,955	\$2,395,766	\$3,777,807	\$1,568,152	\$597,623	\$401,667	\$6,491,837
Salaried officers ⁴	1,189,100	204,160	93,192	69,920	3,684	36,138	269,934	114,274	182,250	16,361	6,900	6,520	155,767	
Manufacturing: Salaries ⁴	9,612,612	1,117,531	2,479,872	976,796	163,898	282,412	684,203	852,033	344,376	633,890	376,718	119,028	44,687	1,537,168
Wages	36,397,817	3,844,906	8,618,487	4,290,366	436,284	712,923	3,764,169	4,045,789	1,830,506	2,398,811	1,096,388	466,128	327,159	4,565,881
Distribution	1,659,586	205,277	223,678	166,532	62,046	69,041	105,250	237,551	66,709	278,050	49,822	3,199	19,559	172,872
Construction	935,117	222,020	56,477	5,141	8,448	10,068	26,793	198,641	39,901	281,826	28,863	2,368	1	54,571
Other	37,939	15,793	6,839					3,007		2,980			3,742	5,578
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	249,044,215	36,295,378	53,728,911	25,038,327	2,439,422	5,188,841	20,056,420	20,295,040	8,637,757	17,506,732	7,925,773	7,301,926	4,286,328	40,343,360
Materials and supplies	246,174,203	36,091,277	53,055,779	24,714,362	2,383,702	5,120,277	19,774,205	19,954,757	8,539,095	17,285,902	7,873,346	7,252,267	4,247,922	39,881,312
Fuel	1,321,195	48,383	330,649	156,796	19,044	35,295	130,597	177,649	56,803	103,000	7,489	23,822	18,101	213,567
Purchased electric energy	1,510,817	155,718	342,483	164,916	24,562	32,263	151,618	156,860	40,082	108,785	44,938	25,837	16,069	246,656
Contract work	38,000		2,253	12,114	1,006	1,006	5,744	1,777	9,045				4,236	1,825
Value of products	372,616,014	52,444,880	84,375,724	35,836,828	3,895,951	7,771,826	32,128,051	33,674,260	13,880,268	23,057,613	12,028,573	10,032,960	5,050,043	58,439,007
Value added by manufacture ⁶	123,571,799	16,149,502	30,646,813	10,798,501	1,456,529	2,582,985	12,071,631	13,379,250	5,242,511	5,550,861	4,102,800	2,731,034	763,715	18,095,647

¹ Colorado, 1 establishment; Connecticut, 1; Florida, 5; Georgia, 3; Indiana, 7; Kansas, 1; Kentucky, 2; Louisiana, 4; Maine, 2; Michigan, 3; Minnesota, 5; Nebraska, 1; Oklahoma, 1; Oregon, 2; Rhode Island, 1; South Carolina, 1; Tennessee, 3; Utah, 2; Vermont, 1; Virginia, 3; West Virginia, 4.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Wage earners and wages.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ See GENERAL EXPLANATIONS—Persons engaged—general classification.

TIN CANS AND OTHER TINWARE

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TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

KIND	1939	1937	1929
Tin Cans and Other Tinware Not Elsewhere Classified industry, all products, total value.....	\$372, 616, 014	\$358, 796, 401	\$296, 901, 426
Tin cans, utensils, etc., made in this industry.....	357, 309, 769	345, 295, 815	279, 962, 658
Miscellaneous products not specified.....	640, 369		
Receipts for contract and repair work.....	529, 200	13, 500, 586	16, 938, 768
Scrap and salable refuse.....	1, 564, 918		
Other products (not classified in this industry).....	12, 571, 758		
Tin cans and other tinware not elsewhere classified, aggregate value.....	364, 103, 160	353, 650, 422	283, 809, 763
Tin cans, utensils, etc., made in this industry.....	357, 309, 769	345, 295, 815	279, 962, 658
Tin cans, utensils, etc., made as secondary products in other industries.....	6, 793, 391	8, 354, 607	3, 847, 105

¹ Value of light stampings, steel packages, kegs, pails, etc., (not tinned for shipping), galvanized pails, ash and garbage cans.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939			1937	1929
	Produced in the industry	Produced in other industries	Aggregate		
Total value.....	\$357, 309, 769	\$6, 793, 391	\$364, 103, 160	\$353, 650, 422	\$283, 809, 763
Packers' cans:					
Venthole-top cans (chiefly for evaporated milk)—					
Number.....	2, 251, 255, 927		2, 251, 255, 927	1, 878, 373, 935	1, 711, 691, 917
Value.....	\$20, 919, 481		\$20, 919, 481	\$16, 831, 332	\$20, 734, 311
Sanitary cans, including sweetened—condensed-milk cans—					
Number.....	9, 091, 304, 452		9, 091, 304, 452	9, 513, 954, 865	5, 526, 838, 732
Value.....	\$160, 738, 061		\$160, 738, 061	\$168, 228, 253	\$122, 020, 557
Beer cans:					
Number.....	776, 021, 878		776, 021, 878	630, 896, 567	
Value.....	\$18, 600, 944		\$18, 600, 944	\$14, 108, 829	
Ice-cream cans:					
Number.....	859, 256	13, 499	872, 755	999, 505	1, 097, 826
Value.....	\$351, 207	\$23, 353	\$374, 560	\$535, 873	\$1, 819, 905
Dairy milk cans:					
Number.....	1, 041, 539	153, 158	1, 194, 697	1, 575, 277	1, 704, 307
Value.....	\$3, 361, 367	\$485, 351	\$3, 846, 718	\$5, 040, 856	\$3, 979, 393
General line cans (miscellaneous cans and packages), total value.....	\$119, 304, 021	\$2, 170, 661	\$121, 474, 682	\$130, 367, 606	\$129, 528, 875
Number and value reported—					
Number.....	4, 008, 922, 454	23, 709, 432	4, 032, 631, 886	4, 190, 114, 479	2, 908, 271, 900
Value.....	\$116, 509, 432	\$1, 034, 124	\$117, 543, 556	\$122, 081, 749	\$120, 965, 466
Number not reported, value.....	\$2, 794, 589	\$1, 136, 537	\$3, 931, 126	\$8, 285, 857	\$8, 563, 409
Terneplate oil containers up to 5 gallons, total value.....	\$17, 632, 946	\$46, 457	\$17, 679, 403	(?)	(?)
Number and value reported—					
Number.....	576, 256, 357	82, 493	576, 338, 850	(?)	(?)
Value.....	\$17, 227, 269	\$23, 457	\$17, 250, 726	(?)	(?)
Number not reported, value.....	\$405, 677	\$23, 000	\$428, 677		
Finished tinware, other than cans, value.....	\$16, 401, 742	\$4, 067, 569	\$20, 469, 311	\$18, 537, 673	\$5, 726, 2

¹ Revised. ² "General line cans" probably include data for "Terneplate oil containers," not called for separately prior to 1939.

³ Figures for 1929 are not comparable with those for 1937 and 1939 because of the fact that stamped tinware other than tin cans was included in the former "Stamped ware, enameled ware, and metal stamping, enameling, japanning, and lacquering" industry for 1929, while for 1937 and 1939 it was included in the "Tin cans and other tinware not elsewhere classified" industry.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	31, 770	28, 173	28, 832	29, 720	30, 373	30, 875	32, 274	33, 199	35, 111	34, 374	33, 973	32, 964	31, 373
1937.....	33, 145	30, 087	31, 007	31, 587	32, 695	33, 967	35, 396	37, 277	37, 614	36, 875	32, 168	30, 179	28, 889
1929.....	31, 497	28, 868	29, 410	30, 409	31, 447	31, 438	32, 983	34, 067	34, 436	33, 858	32, 190	30, 588	28, 271
California.....	2, 714	2, 132	2, 192	2, 255	2, 536	2, 589	2, 724	2, 965	3, 445	3, 102	2, 804	2, 656	
Florida.....	157	216	157	176	195	161	186	165	126	105	132	113	157
Illinois.....	7, 412	6, 647	6, 920	7, 063	7, 113	7, 144	7, 793	7, 924	8, 105	7, 753	7, 613	7, 549	7, 318
Indiana.....	427	324	362	369	373	383	431	442	645	674	396	373	352
Louisiana.....	623	594	576	603	572	550	593	603	661	669	747	697	606
Maryland.....	3, 925	3, 549	3, 577	3, 685	3, 765	3, 812	3, 777	3, 950	4, 318	4, 424	4, 283	4, 131	3, 830
Massachusetts.....	413	392	391	392	426	410	396	395	388	432	450	456	431
Michigan.....	262	179	271	314	314	275	248	199	149	157	278	305	332
Minnesota.....	310	292	302	307	311	310	336	314	319	318	285	312	316
Missouri.....	670	568	592	630	663	691	710	715	689	698	724	714	650
New Jersey.....	3, 153	2, 689	2, 967	3, 049	3, 023	3, 112	3, 221	3, 181	3, 535	3, 282	3, 304	3, 282	3, 186
New York.....	3, 561	3, 315	3, 319	3, 393	3, 382	3, 344	3, 408	3, 481	3, 601	3, 879	3, 940	3, 984	3, 684
Ohio.....	1, 584	1, 484	1, 480	1, 494	1, 504	1, 450	1, 578	1, 669	1, 811	1, 869	1, 578	1, 554	1, 502
Pennsylvania.....	2, 426	2, 102	2, 081	2, 137	2, 284	2, 393	2, 552	2, 620	2, 721	2, 271	2, 834	2, 645	2, 519
Tennessee.....	101	88	91	98	101	81	96	106	104	107	128	110	105
Texas.....	1, 000	1, 042	957	955	925	956	887	972	967	1, 005	1, 037	1, 192	1, 105
Washington.....	375	285	300	346	329	495	425	488	485	462	329	282	269
West Virginia.....	947	883	902	908	941	981	991	1, 011	955	947	965	953	927
Wisconsin.....	269	221	235	262	265	283	299	297	292	278	271	268	254

TABLE 6.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939 AND 1929

KIND	1939			1929	
	Number of establishments	Quantity, net tons (2,000 lb.)	Cost	Quantity, net tons (2,000 lb.)	Cost
Steel sheets, plate and strip—hot-rolled (except stainless)	26	34, 283	\$1, 923, 734	(¹)	(¹)
Steel sheets and strip—cold-rolled (except stainless and vitreous enameled)	16	10, 914	757, 226	(¹)	(¹)
Stainless-steel sheets and strip	3	4	5, 304	(¹)	(¹)
Tin plate	216	1, 760, 689	189, 315, 255	1, 449, 007	\$162, 253, 967
Terneplate	69	134, 969	12, 078, 545	3, 206	309, 210
Black plate	72	71, 188	5, 098, 231	(¹)	(¹)
Copper	15	314	105, 867	(¹)	(¹)
Aluminum	10	77	57, 212	(¹)	(¹)

¹ Not called for on schedule.

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	248
Reporting expenditures for plant and equipment	186
Value of products—	
Total for the industry	\$872, 616, 014
Reporting expenditures for plant and equipment	356, 615, 010
Expenditures for plant and equipment:	
Total for the industry	10, 401, 383
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	1, 128, 166
Expenditures for new machinery and operating equipment	8, 930, 849
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	342, 368

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$72, 438, 586	\$67, 012, 220
Finished products	20, 720, 349	17, 419, 599
Materials, supplies, etc.	51, 718, 237	49, 592, 621
End of year, total	84, 875, 813	96, 220, 544
Finished products	22, 652, 114	19, 257, 902
Materials, supplies, etc.	62, 223, 699	76, 962, 642
Value of products for the industry, total	372, 616, 014	358, 796, 401
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	372, 406, 014	358, 553, 412
Value for establishments not reporting inventories	210, 000	242, 989

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments	248	232
Number of establishments reporting power equipment	244	218
Prime movers, aggregate:		
Number	64	103
Horsepower	12, 674	14, 620
Prime movers, driving generators, total—		
Number	48	¹ 90
Horsepower	11, 369	¹ 14, 082
Steam engines—		
Number	40	¹ 83
Horsepower	9, 301	¹ 11, 834
Steam turbines—		
Number	5	¹ 7
Horsepower	1, 218	¹ 2, 248
Diesel and semi-Diesel engines—		
Number	1	
Horsepower	300	¹ 13
Other internal-combustion engines ² —		
Number	2	¹ 588
Horsepower	550	
Prime movers, driving generators, ordinarily idle (included above), horsepower	1, 098	
Prime movers not driving generators, total—		
Number	16	
Horsepower	1, 305	
Steam engines—		
Number	11	(³)
Horsepower	638	
Steam turbines—		
Number	2	
Horsepower	600	
Internal-combustion engines, ³ other than Diesel and semi-Diesel—		
Number	3	
Horsepower	67	
Prime movers not driving generators, ordinarily idle (included above), horsepower	8	
Generators, kilowatt rating, total	7, 880	10, 135
Generators, driven by—		
Steam engines, kilowatt rating	6, 420	
Steam turbines, kilowatt rating	895	(³)
Diesel and semi-Diesel engines, kilowatt rating	200	
Other internal-combustion engines, ³ kilowatt rating	365	
Generators, ordinarily idle (included above), kilowatt rating	785	(⁴)
Electric motors, total:		
Number	47, 904	18, 692
Horsepower	126, 134	74, 126
Driven by purchased energy—		
Number	43, 997	15, 648
Horsepower	114, 177	62, 712
Driven by energy generated in establishments reporting—		
Number	3, 907	3, 044
Horsepower	11, 957	11, 414
Electric energy (kilowatt-hours):		
Generated in plant	9, 366, 228	(³)
Purchased	102, 942, 746	56, 045, 223

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

WIRE DRAWN FROM PURCHASED RODS

[A preliminary report for this industry was issued November 6, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in drawing wire from purchased rods of iron and steel and nonferrous metals, and the further fabrication of same, and does not, therefore, include the production of wire drawing departments of rolling mills.

The statistics in tables 1 to 3, 7, and 10 to 13, inclusive, relate only to the "Wire drawn from purchased rods"

industry, but the detailed figures given in tables 4, 5, 6, 8, and 9 refer to all establishments reporting the production of wire and wire products regardless of the industries in which classified. As will be seen by referring to table 4, the output of wire and wire products by the departments of steel works and rolling mills exceeds that reported for mills in the "Wire drawn from purchased rods" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939.....	95	21,969	\$29,965,840	\$99,982,019	\$176,503,111	\$76,521,092	25,096
1937.....	93	24,580	33,967,410	100,375,112	182,149,368	81,774,256	(5)
1935.....	88	21,550	24,451,876	68,721,827	127,417,195	58,695,368	(5)
1933.....	78	14,656	14,321,233	39,614,635	75,475,581	35,860,946	(5)
1931.....	82	14,476	17,179,057	45,187,263	83,370,125	38,182,862	(5)
1929.....	81	22,467	35,110,335	126,182,429	213,997,410	87,814,981	31,670
1927.....	73	19,866	30,038,209	128,092,414	190,709,790	62,617,376	49,322
1925.....	68	18,544	26,927,604	127,250,514	184,462,536	57,212,022	56,194
1923.....	64	21,310	29,861,860	133,883,057	196,364,212	62,481,155	(5)
1921.....	61	14,832	17,809,545	62,705,464	99,945,614	37,240,150	(5)
1919.....	66	19,741	29,289,667	102,813,591	162,151,236	59,337,645	64,271
1914.....	54	17,600	11,020,729	56,424,494	81,841,012	25,416,518	67,437
1909.....	56	18,084	10,815,722	60,542,931	84,486,518	23,943,587	68,816
1904.....	25	4,737	2,858,743	30,062,487	37,914,419	7,851,932	25,509
1899.....	29	1,603	859,645	7,014,319	9,421,238	2,406,919	9,934

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² Figures for years prior to 1935 do not include cost of contract work.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ Not called for on schedule.

⁵ See GENERAL EXPLANATIONS—Wage earners and wages.

⁶ Data not available.

⁷ The figures for 1927 and earlier years are not strictly comparable with those for later years, for the reason that at the census for 1929 certain large establishments engaged primarily in rolling nonferrous metals and manufacturing nonferrous wire were transferred from the "Wire drawn from purchased rods" industry to the "Nonferrous metal alloys and products" industry; and also because a somewhat different method of handling data on the custom drawing of nonferrous wire was adopted.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Massachusetts	Michigan	New Jersey	New York	Ohio	Pennsylvania	Other States ¹
Number of establishments ²	95	4	8	11	6	14	4	13	8	8	11	8
Proprietors and firm members.....	8		2			6						
Persons reported by manufacturing establishments, total ³	25,980	349	1,714	3,042	1,895	4,207	2,172	3,265	2,722	1,679	3,465	1,469
Salaried officers of corporations ⁴	159	7	20	13	7	13	6	38	18	6	17	14
Manufacturing:												
Salaried employees ⁴	2,921	61	225	301	243	560	238	376	217	212	297	191
Wage earners (average for the year) ⁴	21,969	277	1,418	2,674	1,591	3,555	1,802	2,599	2,432	1,452	3,046	1,122
Distribution.....	790	4	34	44	47	46	126	217	52	1	82	137
Construction.....	123		10	10	7	33		30	3		21	6
Other.....	18		7					5		4	2	
Salaries and wages, total ⁵	\$40,382,370	\$592,384	\$2,672,273	\$3,955,725	\$2,912,247	\$7,268,448	\$3,121,490	\$5,465,753	\$3,895,551	\$2,970,426	\$5,350,501	\$2,177,572
Salaried officers ⁴	2,103,181	35,750	237,065	167,660	121,944	183,520	225,558	495,636	260,057	22,703	201,759	151,520
Manufacturing:												
Salaries ⁴	6,407,981	106,366	519,358	627,860	513,474	1,239,613	506,327	833,565	529,499	491,858	661,992	378,069
Wages.....	29,965,840	430,907	1,823,553	3,014,638	2,143,971	5,670,563	2,141,261	3,682,251	2,940,252	2,441,285	4,282,270	1,394,889
Distribution.....	1,708,970	19,361	65,868	130,567	121,190	128,052	248,344	406,346	160,929	2,400	183,742	242,171
Construction.....	176,651		20,056	15,000	11,668	46,700		43,605	4,814	5,398	18,496	10,914
Other.....	19,747		6,373					4,350		6,782	2,242	
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	99,982,019	1,953,913	4,383,909	14,996,335	10,072,885	10,271,995	14,056,811	12,108,932	7,775,077	7,628,227	12,074,681	4,659,254
Materials and supplies.....	95,003,661	1,898,687	4,062,171	14,468,614	9,688,980	9,206,013	13,703,576	11,350,221	7,410,760	7,284,386	11,541,350	4,388,903
Fuel.....	2,241,650	15,497	241,883	164,423	212,618	463,873	127,169	281,993	205,038	176,780	243,293	109,083
Purchased electric energy.....	2,587,142	39,729	79,855	251,298	171,287	601,906	226,066	468,862	159,279	163,410	278,038	147,412
Contract work.....	149,566		112,000			203		7,856		3,651	12,000	13,856
Value of products.....	176,503,111	3,153,178	10,049,046	23,935,451	14,904,417	22,427,537	19,879,464	22,532,129	13,575,599	12,310,555	25,522,566	8,213,169
Value added by manufacture ⁴	76,521,092	1,199,265	5,665,137	8,939,116	4,831,532	12,155,542	5,822,653	10,423,197	5,800,522	4,682,328	13,447,886	3,553,915

¹ Iowa, 1 establishment; Maine, 1; Maryland, 1; Missouri, 1; Rhode Island, 1; Texas, 1; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Persons engaged—general classification.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

KIND	1939	1937	1929
Wire Drawn from Purchased Rods industry, all products, total value.....	\$176,503,111	\$182,149,368	\$213,997,410
Bare wire made for sale and for interplant transfer, and wire products made in this industry.....	154,235,044	162,100,993	192,439,764
Miscellaneous products not specified.....	2,469,221		
Merchandise sold without processing.....	4,235,302		
Scrap, dross, and salable refuse.....	616,466		
Receipts for custom drawing and contract work.....	504,910	120,048,375	21,557,646
Other products (not classified in this industry).....	14,412,168		

¹ Revised.² Value of cold-rolled strip steel, cold-drawn steel bars, washers, rivets, etc.

TABLE 4.—PRODUCTS BY INDUSTRY AND BY VALUE: 1939, 1937, AND 1929

	1939	1937	1929
Wire Drawn from Purchased Rods industry, all products, total value.....	\$176,503,111	\$182,149,368	\$213,997,410
Bare wire made for sale and for interplant transfer.....	54,328,858	55,165,874	95,126,565
Wire products.....	99,906,186	106,935,119	97,313,199
Other products (not classified in this industry).....	22,268,067	20,048,375	21,557,646
Wirework Not Elsewhere Classified industry, all products, total value.....	158,816,863	164,510,088	146,805,049
Wire products.....	149,112,217	154,006,476	135,865,696
Other products (not classified in this industry).....	9,704,646	10,503,612	10,939,353
Wire and wire products made by wire-drawing departments of steel works and rolling mills:			
Bare wire made for sale and for interplant transfer.....	73,760,728	78,528,172	83,562,304
Wire products.....	115,407,314	107,564,150	116,634,982
Wire and wire products made by wire-drawing departments of nonferrous rolling mills and other establishments (except steel works and rolling mills):			
Bare wire made for sale and for interplant transfer.....	50,621,560	63,276,502	104,372,625
Wire products.....	61,981,451	78,976,165	56,499,863
Wire products made as secondary products in other industries, insulated wire and cable made in the "Insulated wire and cable" industry, and wire nails, tacks, etc., made in "Nails, spikes" etc., industry.....	99,520,568	115,584,471	242,002,636
Bare wire made for sale and for interplant transfer, total.....	178,711,146	196,970,548	283,061,494
Wire products, total.....	525,927,736	563,066,381	648,316,376
Wire products except insulated wire and cable.....	321,497,852	317,724,746	324,334,444
Insulated wire and cable.....	204,429,884	245,341,635	323,981,932

¹ Revised.² Value of cold-rolled strip steel, cold-drawn steel bars, washers, rivets, etc.³ Value of cold-rolled strip steel, fence posts, screw-machine products, tools, bakery equipment, etc.

TABLE 5.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

[Tons, 2,000 pounds; kegs, 100 pounds]

PRODUCT	1939	1937	1929
BARE WIRE			
Aggregate value (made for sale and for interplant transfer).....	\$178,711,146	\$196,970,548	\$283,061,494
Iron and steel wire:			
Plain, total tons.....	3,170,528	2,912,665	3,097,239
Made for sale—			
Tons.....	890,033	920,663	1,074,076
Value.....	\$68,671,086	\$75,957,334	\$78,992,298
For interplant transfer (transfer to other plants of same company or of affiliated companies)—			
Tons.....	153,605	117,279	129,567
Value.....	\$11,888,880	\$9,996,235	\$9,463,755

TABLE 5.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
BARE WIRE—continued			
Iron and steel wire—Continued.			
Plain—Continued.			
Produced and consumed in same works, including wire subsequently galvanized or otherwise coated or cold-rolled, tons (no value assigned).....	2,121,890	1,874,723	1,893,596
Galvanized—			
Made for sale—			
Tons.....	222,848	201,347	
Value.....	\$17,167,835	\$16,291,113	268,793
For interplant transfer—			
Tons.....	31,831	27,166	\$19,656,880
Value.....	\$2,469,456	\$2,511,217	
Produced and consumed in same works, tons (no value assigned).....	588,953	521,077	574,402
Other coated wire—			
Made for sale—			
Tons.....	48,254	44,637	
Value.....	\$7,702,820	\$6,756,777	52,242
For interplant transfer—			
Tons.....	1,774	1,780	\$8,143,031
Value.....	\$222,737	\$277,745	
Produced and consumed in same works, tons (no value assigned).....	13,356	8,024	4,805
Cold-rolled from drawn wire—			
Made for sale and for interplant transfer—			
Tons.....	21,917	23,997	28,757
Value.....	\$3,164,491	\$3,808,237	\$4,255,839
Produced and consumed in same works, tons (no value assigned).....	(1)	2,398	14,271
Copper wire, total pounds.....	673,207,778	752,952,397	1,104,497,194
Made for sale:			
Pounds.....	152,769,047	173,528,319	
Value.....	\$23,453,645	\$28,905,248	544,740,189
For interplant transfer:			
Pounds.....	39,422,819	84,574,039	\$118,627,983
Value.....	\$5,271,920	\$14,165,456	
Produced and consumed in same works, pounds (no value assigned).....	451,753,338	473,900,662	407,996,224
Drawn on contract or custom basis from rods or bars owned by others, pounds.....	29,262,574	20,949,377	151,760,781
Brass and bronze wire, total pounds.....	90,125,352	96,142,965	92,886,093
Made for sale:			
Pounds.....	67,718,483	72,473,178	81,482,823
Value.....	\$14,087,926	\$15,316,357	\$19,091,773
For interplant transfer:			
Pounds.....	7,913,144	5,452,175	5,322,571
Value.....	\$1,453,969	\$1,104,573	\$1,240,719
Produced and consumed in same works and drawn on contract or custom basis from rods or bars owned by others, pounds (no value assigned).....	14,493,725	18,217,612	5,880,699
Electrical-resistance wire, made for sale:			
Pounds.....	9,667,555	10,585,134	(2)
Value.....	\$6,034,798	\$7,393,428	
Other nonferrous wire:			
Made for sale and for interplant transfer—			
Quantity reported—			
Pounds.....	59,450,223	45,528,606	48,487,180
Value.....	\$17,095,273	\$14,272,915	\$23,589,716
Quantity not reported, value.....	\$526,310	\$213,913	
Produced and consumed in same works and drawn on contract or custom basis from rods or bars owned by others, pounds (no value assigned).....	1,779,268	1,084,363	20,900
WIRE PRODUCTS			
Aggregate value.....	\$525,927,736	\$563,066,381	\$648,316,376
Iron and steel wire products:			
Nails, brads, and spikes ³ —			
Total kegs (100 pounds).....	13,788,864	11,081,260	13,600,673
Total value.....	\$42,566,457	\$35,664,465	\$44,934,890
Bright, not including galvanized and other coated—			
Kegs.....	11,172,532	8,694,319	10,302,272
Value.....	\$31,626,880	\$25,915,763	\$31,738,404
Galvanized—			
Kegs.....	1,205,074	964,079	1,008,176
Value.....	\$6,191,217	\$4,913,078	\$5,385,058
Cement-coated—			
Kegs.....	1,411,258	1,422,862	2,290,225
Value.....	\$4,748,360	\$4,835,624	\$7,811,428

See footnotes at end of table.

WIRE DRAWN FROM PURCHASED RODS

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TABLE 5.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
WIRE PRODUCTS—continued			
Iron and steel wire products—Con.			
Tacks—			
Pounds.....	4,753,276	2,902,569	6,540,281
Value.....	\$523,400	\$229,263	\$640,072
Staples:			
Quantity reported—			
Pounds.....	57,469,337	44,158,469	58,878,705
Value.....	\$1,851,113	\$1,577,276	\$2,342,378
Quantity not reported, value.....	\$123,359		
Barbed wire, plain and coated—			
Tons.....	230,765	187,671	221,809
Value.....	\$13,824,706	\$11,177,535	\$13,824,143
Rope and cable, except insulated—			
Tons.....	98,486	106,002	153,304
Value.....	\$35,761,953	\$36,403,090	\$46,876,871
Strand, galvanized—			
Tons.....	40,934	33,322	48,565
Value.....	\$6,037,473	\$4,403,365	\$5,617,900
Poultry netting—			
Tons.....	47,776	49,571	46,733
Value.....	\$5,920,569	\$6,092,177	\$7,536,147
Woven-wire fence, except poultry netting—			
Tons.....	318,963	284,489	365,505
Value.....	\$25,356,162	\$23,329,739	\$31,041,091
Fly screening—			
Pounds.....	53,297,935	58,298,897	64,728,176
Value.....	\$7,486,482	\$8,463,195	\$9,942,027
Other wire cloth—			
Quantity reported—			
Pounds.....	48,369,350	47,996,049	31,106,928
Value.....	\$6,684,368	\$6,670,309	\$4,995,659
Quantity not reported, value.....			\$1,559,316
Concrete reinforcement wire—			
Quantity reported—			
Tons.....	166,696	114,409	
Value.....	\$10,797,584	\$7,524,353	
Quantity not reported, value.....	\$73,663	\$166,600	
Wire lath—			
Tons.....	6,476		138,830
Value.....	\$1,035,380		\$11,786,472
Other woven wire—			
Tons.....	24,778	\$5,503,798	
Value.....	\$5,425,844		
Bale ties—			
Pounds.....	169,566,008	160,769,597	148,474,426
Value.....	\$5,614,723	\$5,899,532	\$5,088,035
Wire springs, total value.....	\$67,933,592	\$72,875,064	\$47,903,132
Upholstery wire springs:			
Seat and back springs for automobiles, trucks, and buses, value.....	\$23,330,590		
Furniture and mattress springs, including bed springs, value.....	\$15,407,150	\$41,136,129	\$25,344,315
Spring seats for theatres, railroads, etc., value.....	\$206,906		
Valve springs for internal-combustion engines, value.....	\$2,680,113	\$3,300,161	\$3,314,728
Flat coil springs (for phonograph motors, clocks, toys, etc.), value.....	\$1,431,327	\$1,706,144	\$3,107,429
Hair springs (for time mechanisms, ammeters speedometers, etc.), value.....	\$252,203	(¹)	(¹)
Flat springs, not coiled (stampings for mechanical equipment, instruments, etc.), value.....	\$3,536,868	\$4,568,971	
Wire forms from round wire for assemblies and mechanical purposes:			
Made of wire of over .50 carbon, value.....	\$2,332,099	\$2,539,876	\$16,136,660
Other wire forms, value.....	\$1,160,089		
Miscellaneous compression, tension and torsion; helically wound from rounds, squares, and shapes, value.....	\$17,596,247	\$19,623,783	
Motor-vehicle skid chains—			
Quantity reported—			
Tons.....	19,517	28,235	31,445
Value.....	\$3,957,845	\$6,413,015	\$8,987,494
Quantity not reported, value.....	\$181,335	\$785,430	\$2,503,907
Other wire chain—			
Quantity reported—			
Tons.....	27,678	35,013	
Value.....	\$5,105,185	\$6,101,839	
Quantity not reported, value.....	\$64,531	\$99,848	
Welding wire—			
Pounds.....	83,209,458	69,135,261	
Value.....	\$4,798,460	\$4,131,597	

TABLE 5.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
WIRE PRODUCTS—continued			
Iron and steel wire products—Con.			
Garment hangers—			
Quantity reported—			
Pounds.....	19,632,732	19,717,404	
Value.....	\$1,001,463	\$973,127	
Quantity not reported, value.....	\$771,551	\$410,464	\$42,872,319
Wire hoops—			
Pounds.....	8,718,412	8,803,090	
Value.....	\$329,128	\$311,812	
Other fabricated iron and steel wire products, value ²	\$34,728,038	\$34,716,637	
Nonferrous wire products:			
Fly screening—			
Copper and bronze—			
Pounds.....	16,155,628	13,567,303	
Value.....	\$4,883,739	\$4,308,964	
Other metals—			
Pounds.....	330,977	304,010	15,203,927
Value.....	\$290,590	\$239,115	\$5,104,487
Fourdriner and cylinder wire cloth—			
Pounds.....	3,077,730	3,183,097	3,107,604
Value.....	\$5,376,490	\$4,960,531	\$4,764,950
Other nonferrous wire cloth—			
Copper and bronze—			
Quantity reported—			
Pounds.....	1,360,367	1,666,278	
Value.....	\$1,000,964	\$1,363,627	
Quantity not reported, value.....	\$288,665	\$224,001	
Other metals—			
Quantity reported—			
Pounds.....	716,892	829,016	2,618,126
Value.....	\$1,001,974	\$1,060,744	\$1,271,475
Quantity not reported, value.....	\$255,433	\$275,407	
Copper strand, not insulated—			
Pounds.....	100,095,164	131,733,198	92,395,338
Value.....	\$15,402,552	\$22,095,973	\$18,616,600
Other fabricated nonferrous wire products, except insulated wire, value.....	\$4,743,601	\$3,272,854	\$6,125,079
Insulated wire and cable, and armored conductor, total value.....	\$204,429,884	\$245,341,635	\$323,981,932
Rubber insulated:			
Lighting and power circuit—			
Braided, value.....	38,753,887	46,991,147	51,130,555
Leaded, value.....	5,327,464	14,845,464	23,037,318
Telephone, value.....	7,351,218	9,562,309	11,742,261
Flexible cords (rubber insulation, cotton and silk covered), value.....	16,002,647	19,033,044	20,189,102
Paper insulated, including lighting and power circuit, value.....	7,710,053		
Telephone and telegraph cable (including submarine), value.....	13,073,422	33,420,257	96,227,728
Varnished cambric-insulated, value.....	5,796,351	9,140,468	7,209,890
Magnet:			
Cotton, silk, and rayon covered, value.....	12,970,961	15,515,204	18,777,088
Enameled, value.....	12,460,171	14,290,085	30,641,417
Armored cable or conductor, value.....	12,984,748	8,916,756	11,889,839
Appliance and extension cord with attachments complete, value.....	5,840,053	4,285,407	(³)
Ignition-cable sets or wire assemblies for internal-combustion engines, value.....	7,714,216	13,389,216	(⁴)
Cotton insulated:			
Weatherproof, value.....	20,356,344	22,680,226	42,011,680
Slow-burning, value.....	4,476,413	6,529,516	
Asbestos-insulated, value.....			
Other insulated wire and cable, value.....	33,111,936	26,742,536	11,625,054

¹ Withheld to avoid disclosing, exactly or approximately, data reported by individual establishments.² Not called for on schedule.³ Aluminum, nickel, and alloys.⁴ Revised.⁵ For production of cut nails and spikes, cut tacks, and horseshoe nails, see "Principal manufactures from rolling-mill products," of the report entitled "Blast Furnaces, Steel Works and Rolling Mills."⁶ Value of "Hair springs (for time mechanisms, ammeters, speedometers, etc.)" included in "Miscellaneous compression," etc., to avoid disclosing, exactly or approximately, data reported by individual establishments.⁷ Not including electrodes, data for which are included in the report for "Generating, distribution, and industrial apparatus, and apparatus for incorporation in manufactured products, not elsewhere classified" industry of the Electrical Machinery group report.⁸ Wire guards, partitions, and grilles, lamp-shade frames, kitchen wire goods, baskets and cages, florists' designs, etc.

CENSUS OF MANUFACTURES: 1939

TABLE 6.—NUMBER OF ESTABLISHMENTS MANUFACTURING WIRE AND SPECIFIED WIRE PRODUCTS: 1939, 1937, AND 1935

	TOTAL			1939			
	1939	1937	1935	Wire mills	Wire departments of iron and steel rolling mills	Wire departments of non-ferrous rolling mills and other establishments	Establishments manufacturing from purchased wire
Iron and steel wire:							
Plain wire.....	117	115	106	61	39	17	-----
Galvanized wire.....	54	55	54	23	30	1	-----
Other coated wire.....	36	32	32	21	14	1	-----
Cold-rolled from drawn wire.....	20	(?)	(?)	15	5	-----	-----
Iron and steel wire products:							
Bale ties.....	33	35	32	4	15	-----	14
Concrete-reinforcement wire.....	75	65	65	2	12	-----	61
Rope and cable, not insulated.....	25	21	22	9	2	-----	14
Strand, galvanized.....	31	30	30	9	14	1	7
Wire nails, brads, and spikes.....	51	58	53	8	25	2	16
Wire tacks and staples.....	47	45	48	6	22	4	15
Fly-screening, except nonferrous.....	21	21	18	2	2	-----	17
Other wire cloth, except nonferrous.....	36	37	36	5	3	-----	28
Barbed wire.....	30	34	34	5	24	-----	1
Poultry netting.....	18	18	17	5	8	-----	5
Woven-wire fence, except poultry netting.....	63	62	64	5	19	-----	39
Welding wire.....	23	17	17	8	5	-----	10
Wire springs.....	199	180	145	10	2	-----	187
Motor-vehicle skid chains.....	18	17	17	2	-----	-----	16
Garment hangers.....	32	16	20	-----	-----	-----	32
Wire hoops.....	11	(?)	(?)	2	7	-----	2
Nonferrous wire:							
Copper wire, plain.....	60	54	53	31	8	21	-----
Brass and bronze wire.....	42	38	37	17	6	19	-----
Wire of other metals and alloys.....	33	34	30	14	-----	19	-----
Nonferrous wire products:							
Fly-screening, nonferrous.....	21	21	19	4	2	-----	15
Fourdriner and cylinder wire cloth.....	18	19	21	-----	-----	-----	18
Other wire cloth, nonferrous.....	28	28	28	2	2	-----	24
Copper strand, not insulated.....	24	22	22	7	3	12	2
Insulated wire and cable.....	124	111	103	19	2	12	91

¹ Includes 7 establishments classified in the "Bolts, nuts, washers, and rivets—made in plants not operated in connection with rolling mills" industry; 4 in the "Screw-machine products and wood screws" industry; and 1 in "Hardware not elsewhere classified" industry.

² No data.

TABLE 7.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY,¹ BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939 AND 1937²

	1939			1937		
	Number of establishments	Quantity	Cost	Number of establishments	Quantity	Cost
		Tons (2,000 lbs.)			Tons (2,000 lbs.)	
Hot-rolled sheets and strip steel.....	14	42,151	\$2,640,423	-----	(?)	(?)
Hot-rolled iron and steel bars.....	6	46,516	2,096,533	-----	(?)	(?)
Wire rods, iron and steel.....	56	667,203	29,153,224	57	741,591	\$33,492,625
Steel wire (purchased as such).....	19	33,962	2,499,091	-----	(?)	(?)
		Pounds			Pounds	
Copper bars and rods.....	28	233,892,000	26,066,034	26	236,561,174	28,518,831
Brass and bronze bars and rods.....	12	10,174,000	1,432,664	9	5,673,144	887,594
Zinc.....	27	25,226,000	1,339,340	29	28,152,647	1,854,929

¹ Does not include wire departments of rolling mills.

² For 1929 the consumption of wire rods, iron and steel, was 955,861 tons (2,000 lbs.) at a cost of \$39,980,106.

³ Not called for on schedule.

TABLE 8.—WIRE-DRAWING EQUIPMENT IN ACTIVE ESTABLISHMENTS, BY KIND, NUMBER, AND CAPACITY: 1939 AND 1937

KIND	Census year	Frame or bench equipment—number of blocks	CONTINUOUS MACHINES		TOTAL ANNUAL CAPACITY (24-hour basis) Based on rod-ripping equipment (tons 2,000 pounds)	
			Number of machines	Number of drafts	Frame or bench	Continuous machines
Wire-drawing blocks or machines—rod, total.....	{ 1939 1937	{ 6,176 7,084	{ 782 728	{ 4,072 4,003	{ 4,666,065 4,800,492	{ 1,989,253 1,551,278
Wire industry (wire drawn from purchased rods).....	{ 1939 1937	{ 2,224 2,397	{ 180 200	{ 1,097 1,207	{ 1,372,753 1,206,341	{ 430,021 344,390
Wire departments of iron and steel rolling mills.....	{ 1939 1937	{ 3,659 4,441	{ 443 375	{ 1,710 1,176	{ 3,061,633 3,392,373	{ 1,061,159 746,238
Wire departments of nonferrous—metal rolling mills, and other establishments.....	{ 1939 1937	{ 293 246	{ 159 153	{ 1,265 1,220	{ 231,679 201,778	{ 498,073 400,630
Redrawing blocks or machines.....	{ 1939 1937	{ 9,261 9,413	{ 1,463 1,352	{ 10,080 9,821	-----	-----
Fine-wire blocks or machines (below No. 20).....	{ 1939 1937	{ 5,861 6,983	{ 3,558 3,397	{ 50,379 46,987	-----	-----

¹ Not strictly comparable with 1939 because of the fact that some companies included redrawing blocks (intermediate) with rod drawing blocks.

² Revised.

TABLE 9.—EQUIPMENT (IN ACTIVE ESTABLISHMENTS) FOR MANUFACTURING WIRE PRODUCTS—SELECTED CLASSES, BY NUMBER AND CAPACITY: 1939, 1937, AND 1935

[Annual capacity on 24-hour basis. Kegs, 100 pounds; tons, 2,000 pounds]

CLASS	TOTAL			1939			
	1939	1937	1935	Wire industry	Wire departments of iron and steel rolling mills	Wire-work industry	Nail, spike, etc., plants other than departments of rolling mills and wire mills
Wire-nail machines:							
Number.....	5,423	5,381	5,655	629	3,766	-----	1,028
Annual capacity, kegs.....	23,202,715	24,836,799	26,434,139	3,174,847	19,033,560	-----	994,308
Barbed-wire machines:							
Number.....	991	1,123	1,156	134	856	1	-----
Annual capacity, tons.....	546,862	656,652	653,392	87,522	459,090	250	-----
Woven-wire-fence machines:							
Number.....	666	697	748	50	366	250	-----
Annual capacity, tons.....	1,231,780	1,117,412	1,144,085	69,545	867,438	294,797	-----
Poultry-netting machines:							
Number.....	273	288	299	75	126	72	-----
Annual capacity, tons.....	174,385	168,378	146,386	39,821	107,150	27,414	-----
Stands for cold-rolling machines:							
Number.....	986	1,148	991	669	279	38	-----
Annual capacity, tons.....	371,109	1,336,313	305,820	153,622	211,337	6,150	-----

¹ Revised.

WIRE DRAWN FROM PURCHASED RODS

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TABLE 10.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	21,969	21,431	20,990	20,966	20,585	20,282	20,551	20,482	20,905	22,205	24,493	25,484	25,256
1937.....	24,580	24,940	25,667	25,950	26,098	25,969	25,103	24,221	24,381	24,649	24,149	22,531	21,300
1929.....	22,467	21,326	21,587	21,731	22,117	22,641	23,011	23,483	23,933	24,439	24,764	21,384	19,194
California.....	277	256	256	263	257	269	272	277	287	301	302	297	292
Connecticut.....	1,418	1,330	1,362	1,378	1,369	1,377	1,370	1,268	1,330	1,427	1,547	1,642	1,616
Illinois.....	2,674	2,738	2,792	2,733	2,703	2,453	2,429	2,385	2,520	2,639	2,872	2,899	2,926
Indiana.....	1,591	1,553	1,480	1,500	1,482	1,443	1,591	1,627	1,586	1,634	1,696	1,762	1,739
Massachusetts.....	3,555	3,492	3,490	3,463	3,437	3,411	3,437	3,396	3,206	3,626	3,826	3,977	3,940
Michigan.....	1,802	1,977	1,590	1,737	1,509	1,504	1,452	1,458	1,715	1,809	2,324	2,323	2,221
New Jersey.....	2,599	2,525	2,562	2,407	2,335	2,377	2,468	2,501	2,550	2,662	2,851	2,975	2,974
New York.....	2,432	2,378	2,369	2,330	2,329	2,345	2,403	2,406	2,361	2,463	2,587	2,662	2,557
Ohio.....	1,452	1,358	1,362	1,365	1,368	1,347	1,511	1,310	1,325	1,417	1,668	1,755	1,801
Pennsylvania.....	3,046	2,722	2,620	2,680	2,693	2,683	2,765	2,794	2,876	3,199	3,584	3,959	3,975

TABLE 11.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	95
Reporting expenditures for plant and equipment.....	81
Value of products:	
Total for the industry.....	\$176,503,111
Reporting expenditures for plant and equipment.....	159,971,615
Expenditures for plant and equipment:	
Total for the industry.....	3,439,057
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	691,078
Expenditures for new machinery and operating equipment.....	2,611,328
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	136,651

TABLE 12.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$27,378,491	\$27,194,920
Finished products.....	13,020,742	12,179,436
Materials, supplies, etc.....	14,357,749	15,015,484
End of year, total.....	29,587,642	31,701,224
Finished products.....	12,084,234	14,764,918
Materials, supplies, etc.....	17,503,408	16,936,306
Value of products for the industry, total.....	176,503,111	182,149,368
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	176,503,111	181,222,378
Value for establishments not reporting inventories.....		926,990

TABLE 13.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	95	81
Number of establishments reporting power equipment.....	94	81
Prime movers, aggregate:		
Number.....	61	89
Horsepower.....	25,096	31,670
Prime movers, driving generators, total—		
Number.....	43	189
Horsepower.....	16,011	131,670
Steam engines—		
Number.....	22	158
Horsepower.....	6,198	120,437

TABLE 13.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Steam turbines—		
Number.....	7	18
Horsepower.....	7,950	18,895
Diesel and semi-Diesel engines—		
Number.....	4	
Horsepower.....	670	111
Other internal-combustion engines ¹ —		
Number.....	8	1,283
Horsepower.....	880	
Hydroturbines and water wheels—		
Number.....	2	112
Horsepower.....	313	1,055
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	4,298	
Prime movers not driving generators, total:		
Number.....	18	
Horsepower.....	9,085	
Steam engines—		
Number.....	10	
Horsepower.....	8,380	
Steam turbines—		
Number.....	1	(²)
Horsepower.....	20	
Internal-combustion engines, ² other than Diesel and semi-Diesel—		
Number.....	6	
Horsepower.....	660	
Hydroturbines and water wheels—		
Number.....	1	
Horsepower.....	25	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	6,000	
Generators, kilowatt rating, total.....	11,002	13,310
Generators, driven by—		
Steam engines, kilowatt rating.....	4,320	
Steam turbines, kilowatt rating.....	5,775	
Diesel and semi-Diesel engines, kilowatt rating.....	496	(³)
Other internal-combustion engines, ² kilowatt rating.....	185	
Hydroturbines and water wheels, kilowatt rating.....	226	
Generators, ordinarily idle (included above), kilowatt rating.....	3,035	(⁴)
Electric motors, total:		
Number.....	19,898	14,803
Horsepower.....	171,006	145,869
Driven by purchased energy—		
Number.....	18,055	12,736
Horsepower.....	155,848	118,950
Driven by energy generated in establishments reporting—		
Number.....	1,843	2,067
Horsepower.....	15,158	26,919
Electric energy (kilowatt-hours):		
Generated in plant.....	27,456,180	(⁴)
Sold.....	18,700	(³)
Purchased.....	220,189,126	202,082,502

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

NAILS, SPIKES, ETC., NOT MADE IN WIRE MILLS OR IN PLANTS OPERATED IN CONNECTION WITH ROLLING MILLS

[A preliminary report for this industry was issued December 7, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of wire nails, brads, spikes, and staples and cut nails, brads, spikes, staples, and horseshoe nails made from purchased nail and tack plate and from wire. Wire nails, brads, spikes, and staples are made chiefly in wire mills and in wire-drawing departments of rolling mills.

Detailed statistics covering the production in all industries of wire nails, brads, spikes, and staples will be found in table 5 of the report for "Wire drawn from purchased rods" industry, and similar statistics for cut nails, spikes, tacks, and horseshoe nails are given in the report for the "Steel works and rolling mills" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939.....	36	2,515	\$2,780,275	\$5,836,150	\$12,807,854	\$7,071,704	3,415
1937.....	42	2,432	2,746,448	5,635,774	11,929,131	6,293,357	(⁵)
1935.....	43	2,178	2,319,948	4,334,147	9,655,901	5,321,754	(⁵)
1933.....	39	1,695	1,589,654	2,704,013	6,973,275	4,269,262	(⁵)
1931.....	46	1,570	1,670,306	2,981,668	6,827,854	3,846,186	(⁵)
1929.....	55	2,027	2,553,417	5,955,661	12,854,745	6,899,084	2,283
1927.....	56	2,100	2,670,016	5,150,906	11,763,468	6,596,562	2,343
1925.....	58	2,227	2,609,773	5,645,626	12,318,494	6,672,868	2,090
1923.....	61	2,849	3,235,142	7,005,168	13,299,740	6,294,572	(⁵)
1921.....	56	2,412	2,575,961	5,070,025	10,976,307	5,306,282	(⁵)
1919.....	65	3,355	3,397,562	8,874,747	17,583,344	8,708,597	4,488
1914.....	64	2,644	1,507,689	3,594,319	7,198,600	3,004,281	6,907
1909.....	57	2,765	1,352,555	3,972,412	8,191,620	4,219,268	7,081
1904.....	76	3,681	1,684,077	4,680,349	8,922,896	4,236,547	10,066
1899.....	102	4,477	2,042,250	8,561,571	14,777,299	6,215,728	12,041

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Connecticut	Illinois	Massachusetts	Other States ¹
Number of establishments ²	36	5	4	15	12
Proprietors and firm members.....	5	-----	1	4	-----
Persons reported by manufacturing establishments, total ³	2,996	664	54	1,288	992
Salaried officers of corporations ⁴	64	8	7	30	19
Manufacturing: Salaried employees ⁵	264	61	9	125	69
Wage earners (average for the year) ⁶	2,515	561	87	1,067	852

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	United States	Connecticut	Illinois	Massachusetts	Other States ¹
Persons reported by manufacturing establishments—Con.					
Distribution.....	128	34	1	41	52
Construction.....	25	-----	-----	25	-----
Other.....	-----	-----	-----	-----	-----
Salaries and wages, total ²	\$3,850,716	\$788,633	\$94,750	\$1,548,330	\$1,419,003
Salaried officers ³	388,363	60,716	19,512	189,648	118,487
Manufacturing: Salaried ⁴	434,810	93,632	17,852	175,185	148,141
Wages.....	2,730,275	563,446	50,760	1,060,444	1,055,625
Distribution.....	268,025	70,839	6,626	93,810	96,750
Construction.....	29,243	-----	-----	29,243	-----
Other.....	-----	-----	-----	-----	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	5,836,150	830,370	158,459	2,520,585	2,326,736
Materials, supplies, and containers.....	5,534,809	782,176	150,125	2,420,546	2,181,662
Fuel.....	116,288	25,664	3,020	37,533	50,071
Purchased electric energy.....	182,132	22,530	5,139	50,760	94,703
Contract work.....	2,921	-----	175	2,746	-----
Value of products.....	12,907,854	2,070,846	358,708	5,269,011	5,209,289
Value added by manufacture ⁵	7,071,704	1,240,476	200,249	2,748,426	2,882,553

¹ Indiana, 2 establishments; Maryland, 2; New Hampshire, 1; New York, 2; Ohio, 2; Pennsylvania, 2; West Virginia, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production statistics are shown separately for this industry, but the production of wire nails will be found in table 5 of the report for "Wire drawn from purchased rods" industry, and cut nails, spikes, etc., in the report for the "Steel works and rolling mills" industry.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

	Quantity, tons (2,000 lbs.)	Cost	Quantity not reported, cost
Iron and steel rods and bars (cold-drawn or rolled).....	2,605	\$152,797	\$40,277
Iron and steel rods and bars (hot-rolled).....	7,266	293,907	33,166
Iron and steel wire, purchased as such.....	5,121	422,704	112,967
Iron and steel washer stock (plates, strip or sheet):			
Primes.....	25,915	1,336,553	93,961
Seconds.....	3,576	141,412	-----

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,515	2,452	2,458	2,432	2,408	2,412	2,442	2,454	2,461	2,508	2,644	2,780	2,729
1937.....	2,432	2,533	2,490	2,446	2,572	2,554	2,075	2,528	2,540	2,475	2,448	2,322	2,197
1929.....	2,027	1,999	2,010	2,023	2,008	2,028	2,041	1,939	2,073	2,068	2,086	2,053	1,998
Connecticut.....	561	526	530	531	515	529	549	545	527	552	628	669	626
Illinois.....	37	35	35	35	37	37	37	37	37	38	38	40	40
Massachusetts.....	1,067	1,072	1,070	1,060	1,051	1,031	1,031	1,015	1,011	1,031	1,091	1,173	1,168

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	36
Reporting expenditures for plant and equipment.....	26
Value of products:	
Total for the industry.....	\$12,907,854
Reporting expenditures for plant and equipment.....	11,976,709
Expenditures for plant and equipment:	
Total for the industry.....	254,362
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	30,831
Expenditures for new machinery and operating equipment.....	196,121
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	27,410

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$3,751,190	\$3,119,617
Finished products.....	1,876,664	1,516,007
Materials, supplies, etc.....	1,874,526	1,603,610
End of year, total.....	4,001,161	4,255,041
Finished products.....	1,961,432	2,121,050
Materials, supplies, etc.....	2,039,729	2,133,991
Value of products for the industry, total.....	12,907,854	11,929,131
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	12,907,854	11,929,131
Value for establishments not reporting inventories.....		

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	36	55
Number of establishments reporting power equipment.....	36	54
Prime movers, aggregate:		
Number.....	14	14
Horsepower.....	3,415	2,283
Prime movers, driving generators, total—		
Number.....	7	14
Horsepower.....	1,690	12,283

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Steam engines—		
Number.....	2	18
Horsepower.....	1,200	11,875
Steam turbines—		
Number.....	1	11
Horsepower.....	80	1118
Diesel and semi-Diesel engines—		
Number.....	1	
Horsepower.....	120	11
Other internal-combustion engines—		
Number.....	1	170
Horsepower.....	55	
Hydroturbines and water wheels—		
Number.....	2	14
Horsepower.....	235	1220
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	150	
Prime movers not driving generators, total—		
Number.....	7	
Horsepower.....	1,725	
Steam engines—		
Number.....	5	(3)
Horsepower.....	1,615	
Hydroturbines and water wheels—		
Number.....	2	
Horsepower.....	110	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	1,200	
Generators, kilowatt rating, total.....	461	127
Generators, driven by—		
Steam engines, kilowatt rating.....	125	
Steam turbines, kilowatt rating.....	60	
Diesel and semi-Diesel engines, kilowatt rating.....	56	(3)
Other internal-combustion engines, ² kilowatt rating.....	45	
Hydroturbines and water wheels, kilowatt rating.....	175	
Generators, ordinarily idle (included above), kilowatt rating.....	75	(4)
Electric motors, total:		
Number.....	831	526
Horsepower.....	7,232	7,020
Driven by purchased energy—		
Number.....	800	512
Horsepower.....	6,839	6,813
Driven by energy generated in establishments reporting—		
Number.....	31	14
Horsepower.....	393	207
Electric energy (kilowatt-hours):		
Generated in plant.....	583,176	(1)
Purchased.....	10,354,436	8,155,500

¹ Includes data for prime movers not driving generators.

² Gas, gasoline, etc.

³ Not called for on schedule.

⁴ Data not available.

WIREWORK NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued December 31, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture, from purchased wire, of fabricated wire products such as woven wire fencing, fly screening, wire cloth and netting, Four-drinier and cylinder wire cloth, wire rope and cable, barbed wire, tire chains, bale ties, concrete-reinforcing wire, wire springs, welding wire, wire guards, partitions, and grillwork, wire trays and baskets, and kitchen wire goods. Insulated wire and cable made from

purchased wire is classified in the "Insulated wire and cable" industry of the Electrical Machinery report.

Detailed statistics of products.—Wire products are manufactured to a considerable extent in departments of wire-drawing plants and in wire departments of iron and steel rolling mills. The total output of such products, as reported by all classes of establishments in which they are manufactured, is shown in detail in table 5 of the report for Wire Drawn from Purchased Rods.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939.....	669	30,386	\$35,538,502	\$74,951,560	\$158,816,863	\$83,865,303	4,380
1937.....	553	33,471	39,207,429	78,295,597	164,510,088	86,214,491	(5)
1935.....	536	25,165	25,426,092	55,983,903	117,569,335	61,583,432	(5)
1933.....	429	17,633	14,134,682	35,220,272	74,520,498	39,300,226	(5)
1931.....	494	17,220	17,381,560	40,307,517	86,693,807	46,386,290	(5)
1929.....	547	22,388	27,912,231	68,144,047	146,805,049	78,661,002	5,559
1927.....	512	21,697	26,439,144	63,093,221	128,535,783	65,442,502	6,143
1925.....	462	19,268	23,834,812	59,604,126	115,428,872	55,824,746	5,335
1923.....	443	16,783	19,340,549	52,279,608	100,248,108	47,968,500	(5)
1921.....	413	11,485	13,314,017	37,039,301	66,384,507	29,345,206	(5)
1919.....	558	15,224	15,505,992	50,754,070	90,549,245	39,795,175	12,331
1914.....	552	12,126	6,719,222	24,113,708	41,789,394	17,675,688	11,614
1909.....	611	12,348	6,331,158	24,393,914	41,937,952	17,544,038	13,665
1904.....	649	13,379	6,099,809	17,856,211	33,038,495	15,182,284	15,578
1899.....	596	9,142	3,894,001	10,813,342	19,840,382	9,027,040	11,749

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Florida	Illinois	Indiana	Iowa	Maryland	Massachusetts	Michigan	Minnesota	Missouri
Number of establishments ¹	669	57	34	3	81	19	7	16	37	51	13	23
Proprietors and firm members.....	413	59	13	1	57	10	2	9	12	12	12	19
Persons reported by manufacturing establishments, total ²	35,916	1,857	2,390	33	4,919	1,215	286	646	1,699	9,077	197	1,084
Salaried officers of corporations ²	714	20	59	5	81	20	7	9	52	81	11	21
Manufacturing:												
Salaried employees ²	3,179	162	300	1	399	133	28	44	174	743	22	80
Wage earners (average for the year) ²	30,386	1,565	1,920	27	4,178	1,048	241	585	1,413	7,961	148	842
Distribution.....	1,512	110	96	—	280	14	8	8	60	254	15	141
Construction.....	91	—	4	—	31	—	2	—	—	34	—	—
Other.....	34	—	1	—	—	—	—	—	—	4	1	—
Salaries and wages, total ²	\$49,066,575	\$2,543,102	\$3,725,957	\$24,078	\$6,292,413	\$1,655,357	\$327,260	\$579,373	\$2,052,752	\$13,165,208	\$297,772	\$1,550,002
Salaried officers ²	4,454,674	83,805	438,870	5,200	568,717	171,215	35,097	79,989	210,814	626,330	46,711	155,518
Manufacturing:												
Salaries ²	5,952,959	327,300	519,995	1,040	741,583	274,564	44,045	58,932	297,842	1,448,425	41,079	140,665
Wages.....	35,538,502	1,930,567	2,538,724	17,138	4,372,720	1,171,924	240,773	422,996	1,434,417	10,532,307	180,740	888,935
Distribution.....	2,942,074	201,430	223,612	—	554,015	37,654	5,220	17,456	109,679	507,511	29,002	264,884
Construction.....	138,119	—	3,716	—	55,378	—	2,125	—	—	47,474	—	—
Other.....	40,247	—	1,040	—	—	—	—	—	—	3,161	240	—
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	74,951,560	4,313,129	4,220,865	74,211	10,922,427	2,605,324	900,115	1,353,396	3,094,485	15,524,581	445,229	3,109,817
Materials and supplies.....	72,140,673	4,232,041	3,954,827	71,160	10,491,073	2,519,623	879,549	1,324,890	2,877,997	14,974,500	427,259	3,046,138
Fuel.....	935,870	15,003	124,895	886	133,144	32,285	7,357	12,876	43,080	211,560	4,976	23,791
Purchased electric energy.....	1,462,285	58,385	105,966	913	198,307	50,782	13,209	16,150	64,190	300,513	12,994	33,123
Contract work.....	412,732	7,700	35,177	1,258	99,903	2,634	—	—	109,218	38,008	—	6,765
Value of products.....	158,816,863	9,191,749	10,163,322	125,892	21,874,468	5,599,936	1,516,437	2,620,463	6,498,451	34,765,462	957,530	6,652,206
Value added by manufacture ⁴	83,865,303	4,878,620	5,942,457	51,681	10,952,041	2,994,612	616,322	1,267,067	3,403,966	19,240,881	512,301	3,542,389

See footnotes at end of table.

WIREWORK NOT ELSEWHERE CLASSIFIED

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TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	New Jersey	New York	Ohio	Oregon	Pennsylvania	Rhode Island	Tennessee	Texas	Washington	Wisconsin	Other States ¹
Number of establishments ¹	36	123	51	4	54	5	5	5	7	20	18
Proprietors and firm members.....	13	96	21	3	32	7	1	1	4	15	14
Persons reported by manufacturing establishments, total ²	2,704	2,783	2,480	34	3,143	69	239	109	115	459	379
Salaried officers of corporations ²	50	134	61	.....	52	3	4	2	8	22	12
Manufacturing:											
Salaried employees ²	153	261	189	6	354	8	21	8	7	42	44
Wage earners (average for the year) ³	2,452	2,182	2,014	26	2,643	57	208	94	87	375	311
Distribution.....	48	188	191	2	91	1	6	5	13	20	11
Construction.....	1	12	4	.....	3	.....	.....	.....	.....	.....	.....
Other.....	.....	6	21	.....	.....	.....	.....	.....	.....	.....	1
Salaries and wages, total ²	\$3,380,579	\$3,782,791	\$4,041,119	\$35,369	\$3,914,258	\$75,771	\$194,907	\$96,993	\$193,475	\$811,487	\$326,522
Salaried officers ²	346,297	637,964	562,724	.....	291,163	3,750	22,300	4,800	29,550	106,816	27,044
Manufacturing:											
Salaries ²	325,699	488,572	395,867	8,760	642,566	11,665	23,176	14,989	13,701	75,078	57,416
Wages.....	2,586,166	2,322,244	2,754,770	25,079	2,817,841	59,586	142,461	70,606	122,903	584,589	220,366
Distribution.....	120,026	308,285	297,012	1,560	157,119	820	6,970	6,598	27,321	45,004	20,896
Construction.....	2,391	17,671	3,795	.....	5,569	.....	.....	.....	.....	.....	.....
Other.....	.....	8,055	26,951	.....	.....	.....	.....	.....	.....	.....	800
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	4,499,900	4,578,211	7,218,457	63,306	9,076,595	143,982	467,498	199,818	544,293	820,138	775,783
Materials and supplies.....	4,350,669	4,357,185	6,661,280	61,425	8,747,731	138,352	453,353	194,058	535,348	787,984	754,201
Fuel.....	62,382	48,049	72,597	170	109,831	1,636	6,571	576	488	14,654	9,579
Purchased electric energy.....	81,579	112,966	140,846	1,711	217,579	2,664	7,574	5,184	8,157	17,500	12,008
Contract work.....	5,240	60,011	43,734	.....	1,454	1,330	.....	.....	300	.....	.....
Value of products.....	10,245,506	11,082,540	14,309,913	136,591	16,507,338	310,997	903,658	477,138	1,037,066	2,513,345	1,326,765
Value added by manufacture ⁴	5,745,606	6,504,329	7,091,456	73,285	7,430,743	167,015	436,160	277,320	492,773	1,693,207	550,982

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Alabama, 4 establishments; Colorado, 2; Georgia, 2; Kansas, 2; Kentucky, 1; Louisiana, 1; Nebraska, 1; North Carolina, 2; Oklahoma, 1; South Carolina, 1; Virginia, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Wirework Not Elsewhere Classified industry, all products, total value.....	\$158,816,863	\$164,510,088	\$146,805,049
Wire products made in this industry.....	149,112,217	154,006,476	135,865,696
Miscellaneous products not specified.....	3,164,389	.....	.....
Other products (not classified in this industry).....	6,540,257	10,503,612	10,939,353

¹ Revised.² Value of cold-rolled strip steel, fence posts, screw-machine products, tools, bakery equipment, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production statistics are shown for this industry, but wirework made in all industries is shown in table 5 of the report for the "Wire drawn from purchased rods" industry.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND ¹	Quantity	Cost	Quantity not reported, cost
	Tons (2,000 lbs.)		
Hot-rolled sheets and strip steel.....	48,594	\$2,776,976	\$531,466
Hot-rolled iron and steel bars.....	10,067	682,828	11,911
Wire rods, iron and steel.....	27,841	1,703,595	68,945
Steel wire (purchased as such).....	390,210	28,146,637	4,097,858
	Pounds		
Copper bars and rods.....	6,040,000	687,270	5,268
Brass and bronze bars and rods.....	2,814,000	505,941	27,608
Zinc.....	8,598,000	478,161	17,782

¹ Consumption of nonferrous wire, although a principal material, was not called for on the schedule form used for this industry.

CENSUS OF MANUFACTURES: 1939

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	30,386	30,287	29,716	29,719	29,444	28,746	27,955	26,453	26,553	20,575	34,021	35,273	35,891
1937.....	33,471	32,789	32,690	25,134	35,225	35,681	34,267	23,007	31,547	32,041	35,249	33,793	20,216
1929.....	22,388	21,951	22,667	23,023	22,768	22,167	22,192	22,589	22,640	23,697	22,883	21,201	20,472
Alabama.....	47	7	7	7	7	7	83	71	73	77	84	72	71
California.....	1,565	1,593	1,537	1,548	1,427	1,392	1,417	1,274	1,386	1,617	1,874	1,946	1,821
Connecticut.....	1,930	1,905	1,910	1,901	1,600	1,858	1,871	1,840	1,875	1,951	1,942	2,102	2,105
Florida.....	27	19	22	22	21	21	21	22	25	32	39	42	36
Illinois.....	4,178	3,826	3,605	3,634	4,017	3,950	3,950	3,912	3,828	4,309	4,541	5,024	4,936
Indiana.....	1,048	994	955	973	1,022	1,005	936	1,019	989	989	1,159	1,263	1,259
Iowa.....	241	218	263	279	277	272	229	225	209	171	212	253	288
Maryland.....	585	540	535	525	556	560	559	501	561	592	638	654	662
Massachusetts.....	1,413	1,350	1,376	1,376	1,370	1,378	1,391	1,389	1,389	1,413	1,478	1,547	1,562
Michigan.....	7,961	8,823	8,398	8,237	8,061	7,751	6,882	5,487	5,600	8,341	9,442	8,821	9,703
Minnesota.....	148	125	132	122	137	144	147	150	141	159	191	185	141
Missouri.....	842	764	812	827	833	840	846	802	843	845	871	882	885
New Jersey.....	2,452	2,647	2,452	2,461	2,424	2,320	2,107	1,961	1,751	1,903	2,669	3,283	3,244
New York.....	2,182	2,114	2,059	2,133	2,057	1,968	1,986	2,108	2,200	2,238	2,446	2,394	2,426
Ohio.....	2,014	1,848	1,830	1,834	1,831	1,601	1,867	1,917	2,004	2,100	2,273	2,416	2,442
Oregon.....	26	25	22	25	26	28	25	24	23	28	26	31	29
Pennsylvania.....	2,043	2,530	2,466	2,487	2,434	2,443	2,464	2,499	2,591	2,669	2,953	3,053	3,131
Rhode Island.....	57	59	59	55	53	51	52	54	54	58	60	62	64
Tennessee.....	208	182	196	206	213	144	202	202	204	213	244	246	244
Texas.....	94	63	74	75	84	92	94	103	108	110	116	119	85
Washington.....	87	76	82	85	87	80	81	82	87	99	95	98	96
Wisconsin.....	375	352	363	361	370	375	364	385	378	376	393	393	385

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	669
Reporting expenditures for plant and equipment.....	398
Value of products:	
Total for the industry.....	\$158,816,863
Reporting expenditures for plant and equipment.....	138,667,413
Expenditures for plant and equipment:	
Total for the industry.....	4,112,075
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	572,620
Expenditures for new machinery and operating equipment.....	3,099,297
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	439,885
Expenditures unclassified.....	273

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$30,381,731	\$29,215,461
Finished products.....	15,500,173	13,575,043
Materials, supplies, etc.....	14,881,558	15,640,418
End of year, total.....	34,933,999	33,983,359
Finished products.....	16,201,334	16,523,583
Materials, supplies, etc.....	18,732,665	17,459,776
Value of products for the industry, total.....	158,816,863	164,510,088
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	157,325,784	161,929,735
Value for establishments not reporting inventories.....	1,491,079	2,580,353

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929		1939	1929
Number of establishments.....	669	547	Prime movers—Continued.		
Number of establishments reporting power equipment.....	664	528	Prime movers not driving generators—Continued.		
Prime movers, aggregate:			Hydroturbines and water wheels—		
Number.....	39	61	Number.....	3	(1)
Horsepower.....	4,380	5,559	Horsepower.....	190	
Prime movers, driving generators, total—			Prime movers not driving generators, ordinarily idle (included above), horsepower.....	25	
Number.....	24	161	Generators, kilowatt rating, total.....	2,125	2,257
Horsepower.....	3,567	15,559			
Steam engines—			Generators, driven by—		
Number.....	15	134	Steam engines, kilowatt rating.....	2,030	
Horsepower.....	3,395	15,154	Diesel and semi-Diesel engines, kilowatt rating.....	44	
Diesel and semi-Diesel engines—			Other internal-combustion engines, ² kilowatt rating.....	43	(2)
Number.....	4	124	Hydroturbines and water wheels, kilowatt rating.....	8	
Horsepower.....	75	1205	Generators, ordinarily idle (included above), kilowatt rating.....	390	(4)
Other internal-combustion engines ² —					
Number.....	4		Electric motors, total:		
Horsepower.....	72		Number.....	18,647	7,563
Hydroturbines and water wheels—			Horsepower.....	76,632	45,168
Number.....	1	13			
Horsepower.....	25	1200	Driven by purchased energy—		
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	482		Number.....	18,402	7,073
Prime movers not driving generators, total—			Horsepower.....	74,907	43,305
Number.....	15				
Horsepower.....	813		Driven by energy generated in establishments reporting—		
Steam engines—			Number.....	245	490
Number.....	7	(3)	Horsepower.....	1,725	1,863
Horsepower.....	405				
Diesel and semi-Diesel engines—			Electric energy (kilowatt-hours):		
Number.....	2		Generated in plant.....	1,222,945	(4)
Horsepower.....	160		Sold.....	7,993	(5)
Other internal-combustion engines ² —			Purchased.....	83,454,589	53,263,835
Number.....	3				
Horsepower.....	58				

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

CUTLERY (EXCEPT ALUMINUM, SILVER, AND PLATED CUTLERY) AND EDGE TOOLS

[A preliminary report for this industry was issued December 28, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of all kinds of edge tools such as chisels, knives, scissors and shears; axes; cutting dies (except metal-cutting dies); razors, razor blades, and dry shavers; and cutlery (except aluminum, silver, and silver-plated cutlery). Silver, nickel-silver and silver-plated cutlery, is classified in the "Silverware and plated ware" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939	266	15,399	\$16,797,297	\$18,756,420	\$59,924,396	\$41,167,976	24,896
1937	251	16,830	18,633,401	18,736,987	68,193,656	49,456,669	(9)
1935	264	13,715	13,532,350	12,671,745	51,171,067	38,499,322	(9)
1933	200	10,807	8,847,633	8,646,969	38,717,841	30,070,872	(9)
1931	221	12,485	12,194,016	8,983,219	52,336,936	43,353,717	(9)
1929	239	14,991	17,651,292	14,789,335	78,660,872	63,871,537	24,334
1927	230	15,832	18,892,154	18,180,385	76,688,444	58,508,059	20,268
1925	211	16,407	20,226,033	20,562,009	80,263,252	59,701,243	24,963
1923	211	16,671	19,760,933	17,159,825	72,477,013	55,317,188	(9)
1921	210	14,345	14,749,993	14,973,967	49,341,204	34,367,237	(9)
1919	304	19,859	20,048,465	19,477,437	66,629,570	47,152,133	22,297
1914	252	16,561	9,075,896	8,185,699	25,540,987	17,355,288	23,862
1909	281	10,997	8,555,891	7,230,608	22,884,914	15,654,406	(9)
1904	254	14,545	7,076,018	6,628,166	18,014,929	12,586,763	29,466
1899	275	12,028	5,652,242	5,091,114	14,787,355	9,696,241	25,563

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Maine	Massachusetts	Michigan
Number of establishments ¹	266	9	27	17	4	9	43	4
Proprietors and firm members	139	13	10	9	1	4	32	1
Persons reported by manufacturing establishments, total ¹	18,392	30	3,794	549	143	147	2,897	139
Salaried officers of corporations ²	340	3	33	19	1	6	47	5
Manufacturing:								
Salaried employees ²	1,469	1	319	53	40	13	221	20
Wage earners (average for the year) ³	15,399	25	3,244	436	98	113	2,349	113
Distribution	1,030	1	147	41	4	8	190	1
Construction	24		14			6		
Other	130		37			1	90	
Salaries and wages, total ²	\$24,138,126	\$33,141	\$4,430,922	\$853,046	\$155,136	\$174,360	\$4,313,070	\$188,057
Salaried officers ²	2,266,754	1,034	245,682	101,443	4,710	19,172	343,703	24,720
Manufacturing:								
Salaries ²	2,696,368	1,130	541,829	93,535	51,562	22,011	488,691	30,565
Wages	16,797,297	28,968	3,349,540	583,433	93,366	120,061	2,858,384	130,958
Distribution	2,102,156	2,009	214,604	74,635	5,498	11,039	436,313	1,814
Construction	31,700		23,975			1,067		
Other	243,851		55,292			1,010	185,979	
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	18,756,420	42,405	3,307,292	570,398	172,497	111,959	2,844,259	99,649
Materials, supplies, and containers	17,512,739	35,906	3,058,959	523,146	151,784	92,807	2,658,481	89,027
Fuel	532,813	524	132,280	15,967	8,146	11,341	89,298	6,768
Purchased electric energy	646,061	1,692	112,337	26,408	12,567	7,214	94,700	3,854
Contract work	64,807	4,283	3,716	4,877		597	1,780	
Value of products	59,924,396	123,383	10,199,901	2,003,469	401,749	372,511	12,678,432	455,164
Value added by manufacture ¹	41,167,976	80,978	6,892,609	1,433,071	229,252	260,552	9,834,173	355,515

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Missouri	New Hampshire	New Jersey	New York	Ohio	Pennsylvania	Wisconsin	Other States ¹
Number of establishments ¹	19	5	29	45	14	15	9	17
Proprietors and firm members.....	8	4	9	20	9	9	1	9
Persons reported by manufacturing establishments, total ²	866	288	1,933	3,840	1,056	706	312	1,692
Salaried officers of corporations ²	31	5	49	67	21	19	16	18
Manufacturing:								
Salaried employees ²	80	26	102	312	99	41	47	95
Wage earners (average for the year) ²	712	254	1,508	3,250	903	598	232	1,564
Distribution.....	43	3	273	209	33	48	15	14
Construction.....			1	1			2	
Other.....				1				1
Salaries and wages, total ²	\$1,454,718	\$347,934	\$2,899,878	\$4,923,236	\$1,207,622	\$952,941	\$507,889	\$1,696,176
Salaried officers ²	208,466	24,560	410,185	484,258	117,617	72,923	86,726	121,555
Manufacturing:								
Salaries ²	146,788	45,547	233,212	584,443	134,356	71,159	81,025	170,515
Wages.....	1,006,229	272,349	1,701,263	3,407,598	897,764	680,315	309,655	1,357,414
Distribution.....	93,235	5,478	553,469	444,582	57,885	128,544	26,659	46,392
Construction.....			1,749	1,085			3,824	
Other.....				1,270				300
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	530,801	210,870	2,163,822	5,652,571	890,173	743,353	314,270	1,102,101
Materials, supplies, and containers.....	487,954	197,516	2,021,388	5,424,113	812,528	672,240	297,240	989,650
Fuel.....	17,807	6,313	44,500	56,466	33,597	30,605	4,880	74,321
Purchased electric energy.....	25,040	7,041	73,400	160,653	42,349	40,508	12,150	26,148
Contract work.....			24,534	11,339	1,699			11,982
Value of products.....	2,628,949	662,824	6,587,316	14,040,067	2,943,502	2,107,086	1,003,409	3,716,634
Value added by manufacture ⁴	2,098,148	451,954	4,423,494	8,387,496	2,053,329	1,363,733	689,139	2,614,533

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Arkansas, 1 establishment; Colorado, 1; Delaware, 1; Iowa, 2; Kentucky, 1; Maryland, 1; Minnesota, 1; Montana, 1; North Carolina, 1; Rhode Island, 3; Tennessee, 1; Vermont, 1; Washington, 1; West Virginia, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Cutlery (Except Aluminum, Silver, and Plated Cutlery) and Edge Tools industry, all products, total value.....	\$59,924,396	\$68,193,656	\$78,660,872
Cutlery and edge tools made in this industry.....	55,263,675	64,191,865	75,522,532
Miscellaneous products not specified.....	871,437		
Receipts for repair work.....	447,609	4,001,791	3,138,340
Other products (not classified in this industry).....	13,341,675		
Cutlery and edge tools, aggregate value.....	60,413,287	69,177,493	81,312,480
Cutlery and edge tools made in this industry.....	55,263,675	64,191,865	75,522,532
Cutlery and edge tools made as secondary products in other industries.....	5,149,612	4,985,628	5,789,948

¹ Value of hand tools other than edge tools.

CUTLERY AND EDGE TOOLS

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TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939			1937	1929
	Produced in this industry	Produced in other industries	Aggregate		
Total value.....	\$55,263,675	\$5,149,612	\$60,413,287	\$69,177,493	\$81,312,480
Cutlery:					
Table cutlery (not including sterling silver and plated) and kitchen cutlery, value.....	4,906,862	29,100	4,935,962	4,633,414	7,776,263
Scissors, shears, and snips, total value.....	(1)	(1)	6,080,163	6,432,016	4,662,730
Tailors, barbers, household, etc.....	5,051,547	238,810	5,290,357	4,704,916	(2)
Other (grass, hedge, pruning, sheep, tinners', etc.).....	(1)	(1)	1,389,806	1,727,100	(2)
Clippers (barbers or toilet and animal)—					
Hand, value.....	568,870	78,210	647,080	550,661	(2)
Electric, value.....	555,378		555,378	621,125	(2)
Razors, dry-shavers, and razor blades, total value.....	(1)	(1)	\$22,497,324	\$29,804,146	\$42,195,099
Safety razors—					
Number.....	10,457,396		10,457,396		
Value.....	\$1,634,636		\$1,634,636		
Dry-shavers—					
Number reported—				12,071,602	(2)
Number.....	(1)	(1)	747,490	\$11,013,280	\$1,823,657
Value.....			\$2,851,387		
Number not reported, value.....			\$330,455		
Other razors—					
Number reported—					
Number.....	74,448		74,448	109,810	(2)
Value.....	\$59,579		\$59,579	\$89,932	\$404,085
Number not reported, value.....	\$31,163	\$4,478	\$35,641		
Safety-razor blades—					
Number reported—					
Number.....	1,905,770,246		1,905,770,246	1,759,933,017	(2)
Value.....	\$17,109,342		\$17,109,342	\$18,700,934	\$39,967,357
Number not reported, value.....	\$473,647	\$2,637	\$476,284		
Pocket knives, value.....	\$5,176,446	\$3,614	\$5,180,060	\$5,211,020	\$5,333,133
Butcher knives and cleavers—					
Knives, value.....	\$1,681,422		\$1,681,422	\$1,191,339	(2)
Cleavers, value.....	\$134,801	\$17,375	\$152,176	\$120,458	
Other cutlery, and cutlery not reported by kind, value.....	\$3,015,597	\$72,303	\$3,087,900	\$3,939,704	\$5,030,910
Edge tools:					
Agricultural edged hand tools (scythes, grass hooks, hay knives, and similar tools), value.....	\$906,118	\$95,651	\$1,001,769	\$760,051	(2)
Axes, adzes, and hatchets, value.....	\$3,056,195	\$426,274	\$3,482,469	\$5,290,453	\$5,105,479
Augers and bits, gimlets and counter-sinks (woodworking only), value.....	\$1,433,652	\$219,352	\$1,653,004	\$1,458,020	\$2,223,844
Cutting dies for use in cutting cloth, paper, leather, etc. (not including metal-cutting dies), value.....	\$4,902,463	\$26,290	\$4,928,753	\$4,485,665	\$3,981,074
Chisels (except cold chisels) and gouges, value.....	\$489,308	\$135,792	\$625,100	\$849,310	
Drawknives and spoke shaves, value.....	\$22,868	\$49,376	\$72,244	\$108,092	\$5,003,948
Other edge tools, value.....	\$1,373,197	\$1,859,286	\$3,232,483	\$3,722,019	

1 Withheld to avoid disclosing, exactly or approximately, data for individual establishments.

2 No comparable data.

3 Includes value of planes to avoid disclosing, exactly or approximately, operations of individual establishments.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	15,399	14,061	14,775	14,929	14,872	14,712	14,532	14,274	14,975	16,001	16,930	17,502	17,221
1937.....	16,830	16,827	16,961	17,172	17,209	16,788	16,356	16,258	16,947	17,095	17,232	16,855	16,263
1929.....	14,991	14,985	15,116	15,244	14,972	14,638	14,568	14,423	14,789	15,215	15,466	15,494	14,877
California.....	25	21	16	16	20	23	24	27	27	27	30	35	36
Connecticut.....	3,244	2,627	2,859	2,910	2,889	2,871	2,905	2,751	3,172	3,726	4,114	4,159	3,946
Illinois.....	436	397	414	419	417	422	438	435	423	420	493	493	517
Indiana.....	98	104	101	100	97	102	87	88	92	98	99	104	105
Maine.....	113	118	117	117	117	118	119	118	94	94	115	116	117
Massachusetts.....	2,349	2,366	2,500	2,503	2,482	2,271	2,227	2,107	2,167	2,267	2,366	2,460	2,468
Michigan.....	113	111	114	113	109	112	112	112	113	111	114	114	116
Missouri.....	712	748	733	709	704	716	722	708	701	688	690	712	717
New Hampshire.....	254	253	253	250	251	244	242	247	245	245	262	273	277
New Jersey.....	1,508	1,401	1,456	1,495	1,500	1,471	1,449	1,469	1,491	1,505	1,559	1,654	1,643
New York.....	3,250	2,974	3,090	3,141	3,122	3,146	3,000	2,952	3,111	3,387	3,627	3,782	3,662
Ohio.....	903	706	864	876	874	881	886	887	905	947	965	1,006	1,041
Pennsylvania.....	598	577	578	577	589	589	538	575	596	616	637	648	653
Rhode Island.....	807	676	697	723	731	767	785	793	847	851	911	950	958
Wisconsin.....	232	232	230	226	218	233	227	232	226	240	231	242	247

CENSUS OF MANUFACTURES: 1939

TABLE 6.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
Steel sheets and strip (except stainless and tool steel).....	<i>Short tons</i> 9,751	\$1,841,173	\$273,261
Other rolled steel (except stainless and tool steel).....	16,120	1,174,303	70,351
Steel forgings, purchased as such.....	354	59,084	49,554
Stainless steel.....	<i>Pounds</i> 4,055,322	1,191,367	155,496
Tool steel.....	3,035,411	811,848	165,144
Nickel and nickel alloys.....	262,860	74,210	6,597

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	266
Reporting expenditures for plant and equipment.....	169
Value of products:	
Total for the industry.....	\$59,924,396
Reporting expenditures for plant and equipment.....	54,744,960
Expenditures for plant and equipment:	
Total for the industry.....	1,063,681
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	86,824
Expenditures for new machinery and operating equipment.....	895,809
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	81,048

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$15,408,327	\$12,923,588
Finished products.....	4,853,186	4,052,084
Materials, supplies, etc.....	10,455,141	8,871,504
End of year, total.....	15,261,392	16,862,589
Finished products.....	4,380,109	5,407,859
Materials, supplies, etc.....	10,881,283	11,454,730
Value of products for the industry, total.....	59,924,396	68,193,656
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	59,326,497	66,716,995
Value for establishments not reporting inventories.....	597,899	1,476,661

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	266	239
Number of establishments reporting power equipment.....	264	238
Prime movers, aggregate:		
Number.....	76	99
Horsepower.....	24,896	24,334
Prime movers, driving generators, total—		
Number.....	37	199
Horsepower.....	20,663	124,334
Steam engines—		
Number.....	10	135
Horsepower.....	2,410	14,438
Steam turbines—		
Number.....	4	19
Horsepower.....	12,183	114,014
Diesel and semi-Diesel engines—		
Number.....	2	
Horsepower.....	205	112
Other internal-combustion engines ¹ —		
Number.....		1720
Horsepower.....		
Hydroturbines and water wheels—		
Number.....	21	143
Horsepower.....	5,865	15,162
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	764	
Prime movers not driving generators, total—		
Number.....	39	
Horsepower.....	4,233	
Steam engines—		
Number.....	14	
Horsepower.....	1,155	
Steam turbines—		
Number.....	4	(²)
Horsepower.....	2,210	
Diesel and semi-Diesel engines—		
Number.....	2	
Horsepower.....	55	
Other internal-combustion engines ² —		
Number.....	4	
Horsepower.....	100	
Hydroturbines and water wheels—		
Number.....	15	
Horsepower.....	713	
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	2,750	
Generators, kilowatt rating, total.....	15,037	12,733
Generators, driven by—		
Steam engines, kilowatt rating.....	1,720	
Steam turbines, kilowatt rating.....	9,060	(³)
Diesel and semi-Diesel engines, kilowatt rating.....	166	
Hydroturbines and water wheels, kilowatt rating.....	4,091	
Generators, ordinarily idle (included above), kilowatt rating.....	430	(⁴)
Electric motors, total:		
Number.....	11,784	6,463
Horsepower.....	46,439	35,041
Driven by purchased energy—		
Number.....	9,635	5,384
Horsepower.....	32,561	25,552
Driven by energy generated in establishments reporting—		
Number.....	2,149	1,079
Horsepower.....	13,878	12,459
Electric energy (kilowatt-hours):		
Generated in plant.....	19,936,041	(³)
Sold.....	4,570,280	(³)
Purchased.....	32,258,639	29,542,352

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

TOOLS (EXCEPT EDGE TOOLS, MACHINE TOOLS, FILES, AND SAWS)

[A preliminary report for this industry was issued October 23, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of hand tools (not including power-driven hand tools) other than edge tools, files, and saws. Some of the principal types included are hammers, wrenches, pliers, screw drivers, shovels, forks, rakes, and hoes; and a variety of special tools used by garagemen, jewelers, plumbers, stonecutters, ironworkers, etc. The manufacture of cutlery and edge tools, files, and saws is covered by separate industry classifications. Because of the large variety of tools in this group and the inability of many of the manufacturers to supply detail data on products, it is necessary to restrict the presentation in table 4 to four broad classifications of tools.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1927 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	387	15,343	\$18,002,210	\$27,355,354	\$75,290,333	\$47,934,979	9,985
1937.....	369	17,612	21,132,440	30,958,820	80,045,549	49,086,729	(⁵)
1935.....	343	12,636	13,297,806	19,067,723	52,544,030	33,476,307	(⁵)
1933.....	294	9,598	8,157,961	10,520,871	34,199,007	23,678,136	(⁵)
1931.....	355	10,833	11,208,740	13,724,818	42,416,660	28,691,842	(⁵)
1929.....	534	19,305	25,808,289	32,110,507	99,462,032	67,351,525	14,541
1927.....	405	16,447	20,941,443	28,057,884	76,607,237	48,549,353	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

⁷ Data not comparable for prior years.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Delaware	Illinois	Indiana	Iowa	Massachusetts	Michigan	Minnesota
Number of establishments ¹	387	22	27	4	56	10	9	40	15	10
Proprietors and firm members.....	199	19	5	7	25	6	7	20	4	5
Persons reported by manufacturing establishments, total ²	19,068	326	2,967	77	2,315	276	221	1,747	1,239	302
Salaried officers of corporations ³	457	14	45	4	66	7	7	48	19	14
Manufacturing:										
Salaried employees ³	2,129	32	395	6	241	38	19	172	155	28
Wage earners (average for the year) ⁴	15,343	215	2,249	67	1,858	226	192	1,459	966	232
Distribution.....	1,062	65	238	149	1	5	2	68	69	28
Construction.....	66		40				1			
Other.....	11									
Salaries and wages, total ²	\$26,626,381	\$506,713	\$3,827,544	\$112,924	\$3,317,671	\$274,533	\$256,638	\$2,497,169	\$1,792,163	\$410,878
Salaried officers ³	2,571,990	39,290	193,477	26,675	458,513	17,690	29,900	233,949	134,288	60,410
Manufacturing:										
Salaries ³	3,815,767	66,296	564,478	8,953	455,084	50,788	33,514	277,124	312,416	45,689
Wages.....	18,002,210	298,080	2,807,983	77,296	2,115,620	201,554	190,572	1,716,469	1,179,644	259,487
Distribution.....	2,118,540	103,047	389,650		286,465	4,501	2,320	269,627	165,815	45,292
Construction.....	107,514		71,956		1,989		332			
Other.....	10,360									
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	27,355,354	389,486	3,583,219	62,913	4,004,849	493,611	336,502	2,236,728	1,368,547	357,581
Materials, supplies, and containers.....	25,278,495	372,356	3,332,052	45,774	3,760,275	477,621	319,046	2,053,465	1,283,039	313,631
Fuel.....	1,008,857	6,006	145,021	3,741	73,338	8,569	8,038	74,362	42,460	15,764
Purchased electric energy.....	870,943	9,700	98,571	3,398	112,063	7,421	9,418	96,393	24,172	23,974
Contract work.....	202,059	824	7,575	10,000	59,173			12,508	18,876	4,212
Value of products.....	75,290,333	1,396,352	9,994,214	294,005	10,435,878	993,671	944,353	6,797,208	4,645,543	1,109,647
Value added by manufacture ⁴	47,934,979	1,006,866	6,410,995	231,092	6,431,029	500,060	607,851	4,560,480	3,276,996	752,066

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Missouri	New Jersey	New York	Ohio	Pennsylvania	Rhode Island	Vermont	Washington	Wisconsin	Other States ¹
Number of establishments ¹	8	21	53	31	33	7	6	3	11	21
Proprietors and firm members.....	9	6	34	6	12	10	2	1	7	14
Persons reported by manufacturing establishments, total ²	275	967	2,488	2,369	1,625	47	284	15	352	1,177
Salaried officers of corporations ²	11	23	49	51	49	3	6	1	18	22
Manufacturing:										
Salaried employees ²	20	126	224	306	166	4	32	-----	32	133
Wage earners (average for the year) ³	224	793	2,069	1,913	1,314	40	239	14	242	972
Distribution.....	20	17	95	94	96	-----	7	-----	59	50
Construction.....	-----	8	15	-----	-----	-----	-----	-----	1	-----
Other.....	-----	-----	6	5	-----	-----	-----	-----	-----	-----
Salaries and wages, total ²	\$376,011	\$1,268,590	\$3,569,558	\$3,539,517	\$2,279,039	\$34,881	\$339,316	\$21,134	\$570,329	\$1,501,773
Salaried officers ²	78,220	166,944	232,788	356,373	306,516	3,120	32,724	2,700	98,521	99,882
Manufacturing:										
Salaries ²	37,706	230,722	481,037	578,574	303,173	4,212	52,365	-----	63,006	250,830
Wages.....	234,610	923,623	2,080,312	2,384,769	1,464,876	27,549	242,770	18,434	321,732	1,046,890
Distribution.....	25,665	36,666	169,448	215,688	204,474	-----	11,457	-----	84,254	104,171
Construction.....	-----	10,645	19,776	-----	-----	-----	-----	-----	2,816	-----
Other.....	-----	-----	6,197	4,163	-----	-----	-----	-----	-----	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	566,326	1,183,864	3,686,075	4,140,210	1,811,676	17,086	408,034	18,849	518,752	2,171,046
Materials, supplies, and containers.....	549,075	1,093,554	3,325,281	3,847,259	1,602,513	12,472	383,100	12,717	485,008	2,009,557
Fuel.....	5,489	47,656	195,328	172,540	101,255	581	7,654	2,378	10,232	82,845
Purchased electric energy.....	9,180	42,304	122,178	69,366	95,888	1,677	17,280	840	22,912	74,188
Contract work.....	2,582	360	43,188	21,025	12,020	2,356	-----	2,914	-----	4,456
Value of products.....	1,251,486	3,227,620	10,022,552	10,937,195	5,508,191	131,851	1,006,915	50,154	1,415,363	5,128,135
Value added by manufacture ⁴	685,160	2,043,756	6,326,477	6,786,985	3,686,515	114,765	598,881	31,305	896,611	2,957,089

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Arkansas, 1 establishment; Colorado, 1; Florida, 1; Maine, 2; Maryland, 1; Mississippi, 1; Nebraska, 1; North Carolina, 1; North Dakota, 1; Oklahoma, 1; Oregon, 1; South Dakota, 1; Tennessee, 2; Texas, 3; West Virginia, 3.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Tools (Except Edge Tools, Machine Tools, Files, and Saws) industry, all products, total value.....	\$75,290,333	\$80,045,549
Tools made in this industry.....	63,592,859	67,506,628
Miscellaneous products not specified.....	2,939,317	12,538,921
Merchandise sold without processing.....	543,165	
Receipts for contract and repair work.....	468,291	
Other products (not classified in this industry).....	17,746,701	
Tools (except edge tools, machine tools, files, and saws), aggregate value.....	77,231,050	78,440,337
Tools made in this industry.....	63,592,859	67,506,628
Tools made as secondary products in other industries.....	13,638,191	10,933,709

¹ Value of cutlery and edge tools, saw blades, and electrically-driven portable hand tools, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939				1937
	Produced in the industry	Produced in other industries within the Iron and Steel group	Produced in other industries outside the Iron and Steel group	Aggregate	
Total value.....	\$63,592,859	\$8,210,346	\$5,427,845	\$77,231,050	\$78,440,337
Forks, hoes, rakes, spades, shovels, etc.....	11,336,909	616,061	351,035	12,304,005	13,936,944
Mechanics' hand tools.....	33,726,438	4,671,883	1,657,112	40,055,433	37,481,304
Household kitchen tools.....	3,879,730	95,266	4,774	3,979,770	4,048,596
Other tools.....	14,649,782	2,827,136	3,414,924	20,891,842	22,973,493

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
Steel sheets and strip (except stainless and tool steel).....	Short tons 13,538	\$1,195,225	\$179,915
Other rolled steel (except stainless and tool steel).....	57,136	3,202,690	267,397
Steel forgings, purchased as such.....	2,548	331,157	34,090
Stainless steel.....	Pounds 87,369	33,254	161,880
Tool steel.....	11,618,634	943,820	46,779
Nickel and nickel alloys.....	195,843	35,002	135,280

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	15,343	14,617	14,924	15,182	15,231	14,919	14,940	14,357	14,890	15,181	15,954	16,725	17,191
1937.....	17,612	17,599	18,242	18,792	18,709	18,581	18,021	17,887	17,537	17,829	17,055	16,222	15,372
1929.....	19,305	18,752	19,522	19,857	19,993	20,125	19,805	19,242	19,170	19,073	19,120	18,754	18,237
California.....	215	221	214	218	228	225	208	201	207	201	222	218	217
Connecticut.....	2,249	2,174	2,182	2,221	2,273	2,237	2,226	2,128	2,184	2,203	2,189	2,419	2,549
Delaware.....	67	62	63	62	61	62	63	65	66	69	76	75	76
Illinois.....	1,858	1,699	1,776	1,842	1,879	1,831	1,806	1,808	1,865	1,887	1,886	2,007	2,005
Indiana.....	226	223	238	238	242	233	223	217	211	208	224	222	227
Iowa.....	192	179	189	186	204	177	177	166	168	204	222	222	214
Massachusetts.....	1,459	1,340	1,402	1,432	1,427	1,441	1,430	1,419	1,423	1,456	1,520	1,601	1,612
Michigan.....	996	990	969	939	996	974	981	547	969	1,020	1,135	1,163	1,268
Minnesota.....	232	211	224	234	236	222	228	234	238	230	238	243	247
Missouri.....	224	217	224	222	208	212	217	196	199	210	235	281	269
New Jersey.....	793	775	799	828	805	733	741	762	772	785	801	841	871
New York.....	2,099	1,823	1,890	1,941	1,956	2,010	2,076	2,068	2,106	2,120	2,300	2,405	2,478
Ohio.....	1,913	1,937	1,933	1,944	1,927	1,867	1,818	1,838	1,856	1,868	1,938	1,982	2,045
Pennsylvania.....	1,314	1,248	1,285	1,294	1,291	1,300	1,290	1,278	1,285	1,285	1,384	1,409	1,421
Rhode Island.....	40	38	39	39	41	41	41	41	38	40	41	45	42
Texas.....	20	19	19	19	19	20	20	20	20	20	20	19	19
Vermont.....	239	248	249	240	243	225	229	223	226	231	246	247	264
Washington.....	14	7	9	8	13	13	13	13	19	17	21	19	13
West Virginia.....	735	785	792	823	739	685	697	665	579	656	772	822	852
Wisconsin.....	242	222	221	229	231	232	238	237	246	252	263	262	270

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	387
Reporting expenditures for plant and equipment.....	228
Value of products:	
Total for the industry.....	\$75,290,333
Reporting expenditures for plant and equipment.....	68,577,584
Expenditures for plant and equipment:	
Total for the industry.....	1,885,210
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	183,068
Expenditures for new machinery and operating equipment.....	1,546,986
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	154,666
Expenditures unclassified.....	490

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$21,808,437	\$19,601,243
Finished products.....	7,004,580	6,837,636
Materials, supplies, etc.....	14,803,857	12,763,607
End of year, total.....	23,305,671	23,919,426
Finished products.....	6,955,393	8,431,233
Materials, supplies, etc.....	16,350,278	15,488,193
Value of products for the industry, total.....	75,290,333	80,045,549
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	75,049,383	78,689,322
Value for establishments not reporting inventories.....	240,950	1,356,227

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929		1939	1929
Number of establishments.....	387	534	Prime movers—Continued.		
Number of establishments reporting power equipment.....	386	523	Prime movers not driving generators—Continued.		
Prime movers, aggregate:			Diesel and semi-Diesel engines—		
Number.....	83	105	Number.....	5	
Horsepower.....	9,985	14,541	Horsepower.....	417	
Prime movers, driving generators, total—			Other internal-combustion engines ² —		
Number.....	34	1105	Number.....	4	
Horsepower.....	7,265	114,541	Horsepower.....	151	(*)
Steam engines—			Hydroturbines and water wheels—		
Number.....	10	149	Number.....	7	
Horsepower.....	2,990	19,140	Horsepower.....	565	
Steam turbines—			Prime movers not driving generators, ordinarily idle (included above), horsepower.....	260	
Number.....	6	111	Generators, kilowatt rating, total.....	5,061	7,432
Horsepower.....	2,100	12,400	Generators, driven by—		
Diesel and semi-Diesel engines—			Steam engines, kilowatt rating.....	2,184	
Number.....	10		Steam turbines, kilowatt rating.....	1,435	
Horsepower.....	1,035	130	Diesel and semi-Diesel engines, kilowatt rating.....	702	(*)
Other internal-combustion engines ² —			Other internal-combustion engines, ² kilowatt rating.....	390	
Number.....	6	11,626	Hydroturbines and water wheels, kilowatt rating.....	350	
Horsepower.....	690		Generators, ordinarily idle (included above), kilowatt rating.....	290	(*)
Hydroturbines and water wheels—			Electric motors, total:		
Number.....	2	115	Number.....	14,027	8,806
Horsepower.....	450	11,375	Horsepower.....	70,323	58,661
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	310		Driven by purchased energy—		
Prime movers not driving generators, total—			Number.....	12,592	7,733
Number.....	49		Horsepower.....	64,112	51,424
Horsepower.....	2,720	(*)	Driven by energy generated in establishments reporting—		
Steam engines—			Number.....	1,435	1,073
Number.....	22		Horsepower.....	6,211	7,237
Horsepower.....	1,186		Electric energy (kilowatt-hours):		
Steam turbines—			Generated in plant.....	8,213,440	(*)
Number.....	11		Purchased.....	60,831,483	49,058,154
Horsepower.....	401				

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

FILES

[A preliminary report for this industry was issued September 12, 1940]

Description of the industry.—This industry, as constituted for census purposes, includes establishments primarily engaged in the manufacture of files and rasps and in recutting and resharpening files. Their products

comprise not only files and rasps for the use of machinists, blacksmiths, cabinet makers, etc., but also small files for jewelers, dentists, and manicurists.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939	22	3,205	\$3,838,520	\$2,452,888	\$11,293,946	\$8,841,058	4,642
1937	21	3,715	4,815,466	3,343,799	13,652,554	10,308,755	(⁵)
1935	22	2,913	3,049,357	2,236,719	9,179,227	6,942,508	(⁵)
1933	23	2,634	2,431,430	1,566,964	7,390,900	5,823,936	(⁵)
1931	26	3,016	2,718,942	1,220,740	7,316,062	6,095,322	(⁵)
1929	33	3,974	5,239,808	3,052,675	14,114,378	11,061,703	4,590
1927	36	3,948	5,144,987	3,135,955	12,973,734	9,837,779	5,400
1925	38	4,200	5,393,274	3,517,726	13,540,953	10,023,227	5,970
1923	37	4,590	5,805,294	3,840,256	13,565,444	9,725,188	(⁵)
1921	39	3,595	3,174,612	2,309,087	7,647,252	5,338,165	(⁵)
1919	50	5,787	6,192,444	4,227,880	17,616,563	13,388,683	7,513
1914	48	4,349	2,135,436	1,595,225	5,608,157	4,012,932	8,094
1909	57	4,158	1,977,877	1,595,730	5,691,203	4,095,473	7,137
1904	62	3,276	1,514,412	1,310,978	4,391,745	3,080,767	5,472
1899	86	3,160	1,277,199	1,166,414	3,403,906	2,237,492	4,627

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Pennsylvania	Other States ¹
Number of establishments ²	22	3	4	15
Proprietors and firm members	5			5
Persons reported by manufacturing establishments, total ³	3,728	60	761	2,907
Salaried officers of corporations ⁴	27	6	4	17
Manufacturing:				
Salaried employees ⁵	343		51	292
Wage earners (average for the year) ⁶	3,205	54	680	2,471
Distribution	104		16	88
Construction	49		10	39
Other				
Salaries and wages, total ⁷	\$4,908,816	\$66,858	\$1,076,063	\$3,765,895
Salaried officers ⁸	124,477	18,586	20,220	85,671
Manufacturing:				
Salaries ⁹	708,138		164,973	543,165
Wages	3,838,520	48,272	825,874	2,964,374
Distribution	165,664		52,256	113,408
Construction	72,017		12,740	59,277
Other				
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	2,452,888	48,505	544,060	1,860,323
Materials, supplies, and containers	2,124,262	39,946	446,630	1,637,686
Fuel	228,868	5,379	79,797	143,692
Purchased electric energy	92,444	2,180	17,633	72,631
Contract work	7,314	1,000		6,314
Value of products	11,293,946	174,745	2,453,209	8,665,992
Value added by manufacture ¹⁰	8,841,058	126,240	1,908,149	6,805,669

¹ Connecticut, 1 establishment; Indiana, 1; Iowa, 1; Massachusetts, 1; Michigan, 1; New Hampshire, 1; New Jersey, 3; New York, 2; Ohio, 3; Rhode Island, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Files industry, all products, total value	\$11,293,946	\$13,652,554	\$14,114,378
Files and rasps made in this industry	10,791,869	12,858,311	13,380,289
Value of reconditioned files, and receipts for recutting and resharpening files in this industry	142,032	118,274	734,089
Miscellaneous products not specified	79,258	675,969	
Other products (not classified in this industry)	1,280,787		
Files and rasps, aggregate value	11,630,125	13,232,635	13,609,392
Files and rasps made in this industry	10,933,901	12,976,585	13,380,289
Files and rasps made as secondary products in other industries	696,224	256,050	229,103

¹ Value of scissors, shears, and snips, tools other than edge tools, and hacksaw blades.

² Includes value of reconditioned files and receipts for recutting and resharpening files.

³ Practically entire amount was made in other industries of the Iron and Steel and Their Products, Except Machinery group.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939	1937	1929
Aggregate value	\$11,630,125	\$13,232,635	\$13,609,392
Metalworking files and rasps, total value	10,791,869	12,355,744	13,030,895
Number reported:			
Dozens	6,584,235	6,054,473	8,247,179
Value	\$10,391,697	\$8,755,819	\$13,030,895
Number not reported, value	\$309,587	\$3,599,925	
Woodworking files and rasps:			
Number reported—			
Dozens	29,111	42,706	74,147
Value	\$44,770	\$76,089	\$116,347
Number not reported, value	\$11,280		
Other files and rasps, value	\$712,759	\$682,528	\$462,150
Value of reconditioned files, and receipts for recutting and resharpening files	\$160,032	\$118,274	(¹)

¹ Included with other products not classified in the industry for 1929.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
Steel sheets and strip (except stainless and tool steel).....	Short tons 3,842	\$280,223	\$26,127
Other rolled steel (except stainless and tool steel).....	12,361	994,631	12,578
Tool steel.....	Pounds 595,427	29,029	

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	3,205	3,379	3,390	3,386	3,230	3,102	3,060	3,009	2,952	3,046	3,036	3,412	3,448
1937.....	3,715	3,602	3,608	3,782	3,805	3,817	3,855	3,822	3,883	3,855	3,723	3,437	3,296
1929.....	3,974	3,943	3,967	4,014	3,988	3,980	3,957	3,992	4,017	4,061	4,044	3,876	3,845
Illinois.....	54	54	54	54	54	54	54	54	54	54	54	54	54
New Jersey.....	143	137	141	141	141	137	139	145	145	141	146	151	155
Ohio.....	782	796	804	818	840	803	760	723	596	674	712	797	816
Pennsylvania.....	680	641	665	665	656	641	636	631	638	653	759	777	703

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	22
Reporting expenditures for plant and equipment.....	17
Value of products:	
Total for the industry.....	\$11,293,946
Reporting expenditures for plant and equipment.....	10,986,324
Expenditures for plant and equipment:	
Total for the industry.....	221,012
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	12,156
Expenditures for new machinery and operating equipment.....	204,732
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	4,124

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$3,979,047	\$2,820,479
Finished products.....	1,939,746	1,083,345
Materials, supplies, etc.....	2,039,301	1,737,134
End of year, total.....	3,822,493	3,575,005
Finished products.....	1,816,885	1,470,961
Materials, supplies, etc.....	2,005,608	2,104,044
Value of products for the industry, total.....	11,293,946	13,652,554
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	11,293,946	13,608,457
Value for establishments not reporting inventories.....		44,097

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	22	33
Number of establishments reporting power equipment.....	22	33
Prime movers, aggregate:		
Number.....	13	13
Horsepower.....	4,642	4,590
Prime movers, driving generators, total—		
Number.....	7	13
Horsepower.....	2,555	14,590
Steam engines—		
Number.....	1	13
Horsepower.....	500	14,590
Steam turbines—		
Number.....	2	
Horsepower.....	1,200	
Diesel and semi-Diesel engines—		
Number.....	4	
Horsepower.....	855	
Prime movers, steam engines, not driving generators—		
Number.....	6	
Horsepower.....	2,087	
Generators, kilowatt rating, total.....	1,800	125
Generators, driven by—		
Steam engines, kilowatt rating.....	250	(2)
Steam turbines, kilowatt rating.....	900	
Diesel and semi-Diesel engines, kilowatt rating.....	650	
Electric motors, total:		
Number.....	812	499
Horsepower.....	8,795	7,651
Driven by purchased energy—		
Number.....	577	487
Horsepower.....	5,295	7,501
Driven by energy generated in establishments reporting—		
Number.....	235	12
Horsepower.....	3,500	150
Electric energy (kilowatt-hours):		
Generated in plant.....	6,192,100	(3)
Purchased.....	4,859,476	6,463,940

1 Includes data for prime movers not driving generators.

2 Not called for on schedule.

3 Data not available.

SAWS

[A preliminary report for this industry was issued September 14, 1940]

Description of the industry.—This industry, as constituted for census purposes, includes establishments primarily engaged in the manufacture of saws and saw blades of all types, for cutting wood, metal, and other substances, such as carpenters' and butchers' saws,

pruning saws and buck saws, and blades for hand and power hacksaws, band saws, and circular saws. The industry does not include the manufacture of saw frames, saw tables, and sawing machines.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939.....	87	4,072	\$5,197,649	\$8,784,355	\$18,470,682	\$11,686,327	2,793
1937.....	80	4,384	5,576,272	7,414,760	19,853,034	12,438,274	(⁵)
1935.....	82	3,425	3,730,985	5,222,565	13,649,287	8,426,722	(⁵)
1933.....	71	2,528	2,347,202	3,003,071	9,926,388	6,923,317	(⁵)
1931.....	75	3,005	3,083,728	4,034,969	11,572,385	7,537,416	(⁵)
1929.....	81	4,137	5,727,416	6,884,331	22,614,958	15,730,627	2,793
1927.....	77	4,182	5,753,856	7,674,394	22,627,990	14,953,596	2,400
1925.....	71	4,710	5,873,398	8,224,443	24,709,211	16,484,768	3,470
1923.....	80	5,420	6,730,442	9,739,996	30,786,858	21,046,862	(⁵)
1921.....	79	3,788	4,086,840	6,479,913	18,185,297	11,705,384	(⁵)
1919.....	112	5,510	6,280,807	11,792,224	31,460,557	19,668,333	4,035
1914.....	100	4,560	3,019,497	4,714,186	12,517,165	7,802,979	5,874
1909.....	96	4,832	2,856,291	4,811,766	11,535,631	6,623,865	8,237
1904.....	83	4,650	2,707,423	4,035,530	9,819,787	5,784,257	6,264
1899.....	96	3,215	1,692,757	2,600,217	6,443,748	3,843,531	5,097

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	New York	Ohio	Washington	Other States ¹
Number of establishments ²	87	4	10	12	9	5	47
Proprietors and firm members.....	42	4	9	6	2	2	19
Persons reported by manufacturing establishments, total ³	4,902	39	163	434	289	126	3,852
Salaried officers of corporations ⁴	97	2	10	20	10	4	51
Manufacturing:							
Salaried employees ⁴	509	2	35	53	22	10	357
Wage earners (average for the year) ⁴	4,072	27	112	320	198	86	3,330
Distribution.....	218	8	6	41	59	26	79
Construction.....	5						5
Other.....	1		1				
Salaries and wages, total ⁵	\$7,097,396	\$61,517	\$246,446	\$711,765	\$353,718	\$232,957	\$5,490,993
Salaried officers ⁵	594,783	5,100	42,705	142,265	48,030	14,572	342,111
Manufacturing:							
Salaries ⁵	951,608	3,800	37,912	88,356	75,573	20,220	725,747
Wages.....	5,197,649	41,287	154,916	415,671	186,347	151,794	4,247,634
Distribution.....	344,509	11,330	8,721	65,473	43,768	46,371	168,846
Construction.....	6,655						6,655
Other.....	2,192		2,192				
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	6,784,355	22,617	199,416	567,449	185,846	149,224	5,659,803
Materials and supplies.....	6,155,219	16,817	180,860	517,407	162,463	138,393	5,139,279
Fuel.....	289,009	761	5,428	17,901	12,750	4,078	248,091
Purchased electric energy.....	239,261	1,823	10,195	31,590	9,848	5,353	180,452
Contract work.....	100,866	3,216	2,933	551	785	1,400	91,981
Value of products.....	18,470,682	104,379	606,641	1,788,604	716,498	517,474	14,737,066
Value added by manufacture ⁶	11,686,327	81,762	407,225	1,221,155	530,652	368,250	9,077,283

¹ Alabama, 2 establishments; Connecticut, 3; Georgia, 2; Indiana, 3; Louisiana, 1; Maine, 2; Maryland, 1; Massachusetts, 11; Michigan, 4; Mississippi, 1; Missouri, 1; New Hampshire, 1; New Jersey, 2; Oregon, 1; Pennsylvania, 10; Rhode Island, 1; Tennessee, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES:
1939, 1937, AND 1929

	1939	1937	1929
Saws industry, all products, total value.....	\$18,470,682	\$19,853,034	\$22,614,958
Saws, parts, and accessories made in this industry.....	14,848,437	15,660,360	18,233,237
Miscellaneous products not specified.....	1,116,769	4,192,674	14,381,721
Receipts for repair work.....	464,692		
Other products (not classified in this industry).....	2,040,784		
Saws and parts (including accessories), total value.....	16,753,338	17,669,561	20,397,966
Saws, parts and accessories made in this industry.....	14,848,437	15,660,360	18,233,237
Saws, parts and accessories made as secondary products in other industries..	1,904,901	2,009,201	2,164,729

¹ Value of parts and accessories not included as products of the industry in 1929.

² Value of machine knives, metalworking files and rasps, mechanics' hand tools, agricultural edged hand tools, other edged tools, etc.

³ Consists chiefly of hacksaw blades.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939	1937	1929
Total value.....	\$16,753,338	\$17,669,561	\$20,397,966
Woodworking saws, total.....	8,173,461	8,790,582	12,085,555
Power-saw blades:			
Circular.....	2,731,418	2,608,339	3,714,411
Band.....	1,406,892	1,703,084	
Other.....	93,096	276,865	
Other woodworking saws:			
Handsaws (including mitre, coping, etc.).....	2,663,270	2,508,175	5,342,384
Crosscut saws and buck saws.....	1,278,785	1,694,125	
Metalworking saws, total.....	6,415,526	6,579,795	6,224,798
Power-saw blades:			
Circular.....	642,675	642,071	2,629,637
Band.....	1,005,529	1,057,738	
Hacksaw blades (hand and power).....	4,767,322	4,879,986	
Other saws.....	624,773	311,237	2,087,613
Saw parts (teeth, handles, frames, etc.).....	1,401,007	1,987,941	(2)
Saw accessories (sets, guides, clamps, brazing tools, etc.).....	138,571		

¹ Band and "Other."

² No data.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	4,072	3,872	3,881	3,802	4,021	3,971	3,968	4,021	4,021	4,106	4,309	4,419	4,479
1937.....	4,384	4,314	4,407	4,503	4,622	4,645	4,639	4,498	4,415	4,427	4,292	4,016	3,772
1929.....	4,137	4,229	4,193	4,189	4,097	4,101	4,132	3,952	4,114	4,152	4,146	4,183	4,153
California.....	27	26	26	24	25	25	24	25	25	28	32	32	30
Connecticut.....	127	107	109	105	113	116	118	119	119	121	148	174	177
Illinois.....	112	236	233	146	73	73	72	77	81	85	88	94	86
Indiana.....	1,097	1,065	1,066	1,066	1,063	1,039	1,031	1,061	1,063	1,124	1,189	1,195	1,193
Massachusetts.....	749	521	527	513	783	760	783	796	780	811	871	920	923
Michigan.....	45	41	41	41	41	43	43	44	44	44	53	50	54
New York.....	320	312	311	317	311	313	317	319	321	320	333	339	333
Ohio.....	198	209	207	186	195	198	204	207	225	224	194	169	169
Pennsylvania.....	1,112	1,095	1,091	1,127	1,126	1,115	1,091	1,095	1,076	1,066	1,106	1,138	1,219
Washington.....	86	77	81	84	83	85	85	84	88	87	91	94	87

CENSUS OF MANUFACTURES: 1939

TABLE 6.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
Steel sheets and strip (except stainless and tool steel)	Short tons 11,705	\$2,321,252	\$544,372
Other rolled steel (except stainless and tool steel)	1,328	197,824	74,355
Steel forgings, purchased as such	Pounds 2	400	16,632
Stainless steel	9,709	3,645	50,000
Tool steel	857,716	259,783	96,702
Nickel and nickel alloys	151,500	39,092	37,980

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	87
Reporting expenditures for plant and equipment	55
Value of products:	
Total for the industry	\$18,470,682
Reporting expenditures for plant and equipment	16,824,447
Expenditures for plant and equipment:	
Total for the industry	1,224,630
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	134,052
Expenditures for new machinery and operating equipment	1,054,330
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	36,248

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$7,345,964	\$5,482,054
Finished products	4,082,253	2,461,540
Materials, supplies, etc.	3,263,711	3,020,514
End of year, total	7,315,229	6,638,542
Finished products	3,791,273	3,001,899
Materials, supplies, etc.	3,523,956	3,636,643
Value of products for the industry, total	18,470,682	19,853,034
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	18,316,270	19,664,838
Value for establishments not reporting inventories	154,412	188,196

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments	87	81
Number of establishments reporting power equipment	87	81
Prime movers, aggregate:		
Number	8	11
Horsepower	2,760	2,798
Prime movers, driving generators, total—		
Number	2	11
Horsepower	1,025	12,798
Steam engines—		
Number	2	19
Horsepower	1,025	12,765
Diesel and semi-Diesel engines—		
Number		
Horsepower		12
Other internal-combustion engines ¹ —		
Number		133
Horsepower		
Prime movers not driving generators, total—		
Number	6	
Horsepower	1,735	
Steam engines—		
Number	5	(¹)
Horsepower	1,675	
Internal-combustion engines, other than Diesel and semi-Diesel ² —		
Number	1	
Horsepower	60	
Generators, kilowatt rating, total	720	775
Generators, driven by steam engines, kilowatt rating	720	(¹)
Electric motors, total:		
Number	4,128	1,410
Horsepower	21,556	10,346
Driven by purchased energy—		
Number	4,054	1,310
Horsepower	21,136	9,096
Driven by energy generated in establishments reporting—		
Number	74	100
Horsepower	420	1,250
Electric energy (kilowatt-hours):		
Generated in plant	218,240	(¹)
Purchased	11,852,637	10,942,203

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

HARDWARE NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued December 27, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of door locks and lock sets and other builders' hardware; hardware for furniture and cabinets, caskets, saddlery and harness, and trunks and suitcases; motor-vehicle hardware made in plants not owned by motor-vehicle manufacturers; and locks and padlocks. A considerable variety of products retailed and generally regarded as hardware are not covered by this industry designation. Among the more important of such items are nails and spikes, bolts, nuts and screws, wire and wire products, tools, cutlery, and small machines such as grinders and lawn mowers.

The reports for motor-vehicle hardware plants *owned by motor-vehicle manufacturers* are classified for the

first time for 1939 in the "Motor vehicles, motor-vehicle bodies, parts and accessories" industry, but the production of motor-vehicle hardware, including lock units, is shown in table 4 for this industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	434	35,645	\$40,220,860	\$60,772,244	\$154,475,928	\$93,703,684	34,712
1937.....	428	43,326	50,032,322	65,915,377	168,869,381	102,954,004	(⁴)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ Revised. No comparable figures for earlier years.

⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Iowa	Kentucky	Maine	Massachusetts
Number of establishments ¹	434	38	37	69	13	6	4	3	25
Proprietors and firm members.....	178	43	7	15	5	—	—	—	10
Persons reported by manufacturing establishments, total ¹	43,453	881	15,002	7,036	792	613	205	445	1,331
Salaried officers of corporations ¹	658	15	80	138	18	13	6	10	26
Manufacturing:									
Salaried employees ¹	4,307	68	1,634	662	132	63	23	38	123
Wage earners (average for the year) ¹	35,645	657	12,163	5,666	592	504	172	341	1,082
Distribution.....	2,713	141	1,059	561	49	33	4	56	86
Construction.....	123	—	63	8	1	—	—	—	14
Other.....	7	—	3	1	—	—	—	—	—
Salaries and wages, total ¹	\$57,605,724	\$1,311,439	\$19,270,950	\$9,879,985	\$1,013,286	\$770,010	\$245,420	\$582,201	\$1,653,040
Salaried officers ¹	4,460,618	100,086	735,404	945,397	148,790	50,491	32,581	36,280	100,519
Manufacturing:									
Salaries ¹	7,484,806	121,196	2,695,692	1,239,952	202,965	93,315	34,924	55,373	204,973
Wages.....	40,220,860	782,205	13,867,668	6,606,356	529,635	554,357	163,720	425,545	1,179,870
Distribution.....	5,266,525	307,952	1,896,821	1,074,036	129,709	71,847	14,195	65,003	139,840
Construction.....	165,376	—	72,411	11,279	2,187	—	—	—	27,838
Other.....	7,539	—	2,954	2,965	—	—	—	—	—
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	60,772,244	1,224,749	17,392,722	11,298,990	1,504,067	664,854	322,278	549,553	2,006,789
Materials, supplies, and containers.....	57,581,226	1,160,757	16,393,611	10,856,452	1,446,567	623,049	310,785	479,903	1,876,078
Fuel.....	1,498,356	8,217	681,135	180,734	13,229	28,050	2,567	35,885	30,213
Purchased electric energy.....	1,292,146	22,160	305,030	156,554	23,250	13,755	8,926	21,454	45,278
Contract work.....	400,516	33,615	12,946	105,250	21,021	—	—	12,311	49,220
Value of products.....	154,475,928	3,960,127	46,585,617	29,404,614	3,441,532	1,775,378	725,908	1,436,844	4,682,770
Value added by manufacture ⁴	93,703,684	2,735,378	29,192,895	18,105,624	1,937,465	1,110,524	403,630	887,291	2,675,981

For footnotes see end of table.

CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Michigan	Minnesota	New Jersey	New York	Ohio	Pennsyl- vania	Rhode Island	Wisconsin	Other States ¹
Number of establishments ¹	37	5	15	76	32	33	5	16	20
Proprietors and firm members	16	3	9	30	3	18	1	7	11
Persons reported by manufacturing establishments, total ²	5,037	124	761	3,096	2,966	3,190	170	580	1,225
Salaried officers of corporations ²	62	4	15	99	54	57	11	20	30
Manufacturing:									
Salaried employees ²	433	8	84	286	313	294	27	46	73
Wage earners (average for the year) ³	4,395	105	611	2,493	2,495	2,674	125	493	1,078
Distribution	140	7	35	212	99	162	7	18	44
Construction	7		16	3	5	3		3	
Other				3					
Salaries and wages, total ²	\$7,211,186	\$155,453	\$1,024,253	\$3,949,964	\$4,053,095	\$4,063,273	\$213,524	\$813,414	\$1,395,231
Salaried officers ²	650,469	14,106	137,957	589,821	244,198	353,519	61,979	119,190	139,801
Manufacturing:									
Salaries ²	920,733	9,704	116,071	437,701	613,781	484,642	33,104	91,360	129,320
Wages	5,272,925	115,248	654,565	2,550,268	2,965,764	2,867,092	102,007	562,441	1,021,204
Distribution	357,865	16,395	93,695	364,284	221,162	355,381	16,434	37,000	104,506
Construction	9,164		21,965	6,280	8,160	2,639		3,423	
Other				1,620					
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	8,789,687	283,163	1,251,391	5,028,978	4,520,001	3,396,448	221,793	1,071,565	1,245,216
Materials and supplies	8,382,720	274,186	1,205,456	4,760,546	4,279,871	3,120,695	213,954	1,018,436	1,178,160
Fuel	124,700	1,641	12,819	98,447	150,066	103,198	1,803	19,486	30,226
Purchased electric energy	235,894	6,195	27,877	139,205	114,891	103,691	6,036	25,370	36,550
Contract work	46,373	1,141	5,239	30,780	5,233	68,864		8,273	250
Value of products	20,810,282	561,907	3,047,601	11,379,779	10,767,250	9,450,658	573,758	2,569,340	3,272,563
Value added by manufacture ⁴	12,020,595	278,744	1,796,210	6,350,801	6,247,249	6,054,210	351,965	1,527,775	2,027,347

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Colorado, 1 establishment; Kansas, 2; Maryland, 2; Missouri, 5; Nebraska, 1; New Hampshire, 1; North Carolina, 1; Oregon, 1; Tennessee, 2; Virginia, 2; Washington, 1; West Virginia, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Hardware Not Elsewhere Classified industry, all products, total value	\$154,475,928	¹ \$168,869,381
Hardware made in this industry	134,985,793	146,226,274
Miscellaneous products not specified	2,566,300	
Receipts for contract work	121,241	
Scrap and salable refuse	701,206	22,643,107
Other products (not classified in this industry)	² 16,101,328	
Hardware not elsewhere classified, aggregate value	192,010,588	211,345,064
Hardware not elsewhere classified made in this industry	134,985,793	146,226,274
Hardware not elsewhere classified made as secondary products in other industries	57,024,795	65,118,790

¹ Revised.² Value of bolts, nuts, screws, metal stampings, toys, and pole-line hardware.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939				1937
	Produced in the industry	Produced in other industries within the Iron and Steel group	Produced in other industries outside the Iron and Steel group	Aggregate	
Total value	\$134,985,793	\$5,262,535	\$51,762,260	\$192,010,588	\$211,345,064
Builders' hardware:					
Door locks and lock sets	16,437,783		82,798	16,520,581	53,067,262
Other builders' hardware	36,574,762	1,091,763	594,454	38,260,979	20,034,743
Furniture and cabinet hardware, including locks	18,148,463	41,936	690,799	18,881,198	3,115,452
Trunk and suitcase hardware, including locks	2,854,948	71,328		2,926,274	4,391,054
Padlocks	4,757,016			4,757,016	2,602,593
Locks not elsewhere specified	1,651,085	49,981	179,635	1,880,701	86,350,740
Motor-vehicle hardware, including lock units	(²)	(²)	(²)	69,233,464	4,840,953
Casket hardware	3,552,303	170,496	679,595	4,402,394	3,357,161
Saddlery and harness hardware	2,032,716	524,266	9,008	2,565,990	4,386,342
Vacuum bottles, jugs, etc.	(²)		(²)	4,484,521	
Chair glides	404,838	54,891		459,729	
Other hardware, and hardware not reported by kind	20,632,094	3,157,081	3,848,566	27,637,741	29,198,534

¹ Chair glides included in figures for "Furniture and cabinet hardware, including locks."² Withheld to avoid disclosing, exactly or approximately, data reported by individual establishments.

HARDWARE NOT ELSEWHERE CLASSIFIED

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TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	35,645	34,158	34,311	34,627	34,530	34,048	33,459	33,415	34,656	36,735	38,553	39,373	39,877
1937.....	43,326	44,711	45,517	46,579	46,035	45,825	44,895	42,722	41,572	41,805	42,612	40,157	37,483
California.....	657	636	595	526	600	622	670	677	686	707	715	723	728
Connecticut.....	12,163	11,568	11,866	12,035	11,974	11,928	11,813	11,865	11,876	12,118	12,592	13,042	13,276
Illinois.....	5,666	5,246	5,315	5,441	5,622	5,519	5,402	5,407	5,585	5,724	6,114	6,313	6,398
Indiana.....	592	537	567	563	591	562	542	554	561	618	586	604	636
Iowa.....	504	484	487	479	500	521	528	498	506	494	529	517	503
Kentucky.....	172	162	170	160	165	162	163	168	174	182	191	184	186
Maine.....	341	338	315	347	379	381	346	322	316	287	322	369	370
Massachusetts.....	1,082	1,034	1,055	1,002	900	913	931	974	1,046	1,255	1,419	1,197	1,252
Michigan.....	4,395	4,635	4,357	4,423	4,466	4,075	3,720	3,607	3,913	4,807	4,960	4,839	5,038
Minnesota.....	105	93	86	83	91	102	102	98	98	105	121	152	131
Missouri.....	464	427	460	437	437	440	441	443	443	454	518	506	558
New Jersey.....	611	632	602	579	581	570	548	555	613	636	681	687	651
New York.....	2,493	2,261	2,273	2,366	2,416	2,334	2,365	2,402	2,482	2,565	2,690	2,869	2,891
Ohio.....	2,495	2,542	2,517	2,431	2,308	2,207	2,148	2,176	2,381	2,705	2,756	2,878	2,894
Pennsylvania.....	2,674	2,557	2,589	2,614	2,468	2,556	2,540	2,512	2,662	2,685	2,930	2,993	2,979
Rhode Island.....	125	131	111	112	117	119	117	120	117	132	135	140	145
Wisconsin.....	493	424	464	498	477	487	464	447	464	514	546	557	572

TABLE 6.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY,¹ BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity tons (2,000 lbs.)	Cost	Quantity not reported, cost
Iron and steel rods and bars (cold-drawn or rolled).....	9,828	\$980,142	\$150,266
Iron and steel rods and bars (hot-rolled).....	10,644	658,300	347,554
Iron and steel wire, purchased as such.....	22,134	1,412,228	62,800
Iron and steel washer stock (plates, strip or sheet):			
Primes.....	79,519	3,926,579	77,184
Seconds.....	10,111	415,080	314,442

¹ The "Hardware Not Elsewhere Classified" industry consumes considerable quantities of nonferrous material, but the schedule form used in canvassing this industry did not call for data on consumption of nonferrous material.

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	434
Reporting expenditures for plant and equipment.....	288
Value of products:	
Total for the industry.....	\$154,476,928
Reporting expenditures for plant and equipment.....	145,026,155
Expenditures for plant and equipment:	
Total for the industry.....	4,153,788
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	1,123,741
Expenditures for new machinery and operating equipment.....	2,869,601
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	160,246
Expenditures unclassified.....	200

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937 ¹
Inventories:		
Beginning of year, total.....	\$39,094,056	\$38,041,637
Finished products.....	15,324,192	14,583,427
Materials, supplies, etc.....	23,769,864	23,458,210
End of year, total.....	42,170,392	44,989,929
Finished products.....	15,234,662	18,356,367
Materials, supplies, etc.....	26,935,730	26,633,562
Value of products for the industry, total.....	154,475,928	168,869,381
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	153,179,124	165,045,613
Value for establishments not reporting inventories.....	1,296,804	3,823,768

¹ Revised.

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	434
Number of establishments reporting power equipment.....	432
Prime movers, aggregate:	
Number.....	77
Horsepower.....	34,712
Prime movers, driving generators, total—	
Number.....	43
Horsepower.....	29,915
Steam engines—	
Number.....	17
Horsepower.....	6,356
Steam turbines—	
Number.....	17
Horsepower.....	22,334
Diesel and semi-Diesel engines—	
Number.....	5
Horsepower.....	965
Other internal-combustion engines ² —	
Number.....	4
Horsepower.....	260
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	4,040
Prime movers not driving generators, total—	
Number.....	34
Horsepower.....	4,797
Steam engines—	
Number.....	26
Horsepower.....	4,042
Diesel and semi-Diesel engines—	
Number.....	2
Horsepower.....	84
Other internal-combustion engines ² —	
Number.....	3
Horsepower.....	154
Hydroturbines and water wheels—	
Number.....	3
Horsepower.....	517
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	155
Generators, kilowatt rating, total.....	19,951
Generators, driven by—	
Steam engines, kilowatt rating.....	3,710
Steam turbines, kilowatt rating.....	15,390
Diesel and semi-Diesel engines, kilowatt rating.....	640
Other internal-combustion engines, ² kilowatt rating.....	211
Generators, ordinarily idle (included above), kilowatt rating.....	2,723
Electric motors, total:	
Number.....	21,270
Horsepower.....	104,240
Driven by purchased energy—	
Number.....	16,846
Horsepower.....	85,258
Driven by energy generated in establishments reporting—	
Number.....	4,424
Horsepower.....	18,982
Electric energy (kilowatt-hours):	
Generated in plant.....	29,080,974
Sold.....	704,849
Purchased.....	71,751,581

¹ No comparable date for 1929.

² Gas, gasoline, etc.

ENAMELED-IRON SANITARY WARE AND OTHER PLUMBERS' SUPPLIES (NOT INCLUDING PIPE AND VITREOUS AND SEMIVITREOUS CHINA SANITARY WARE)

[A preliminary report for this industry was issued December 21, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of enameled-iron sanitary ware (bathtubs, sinks, lavatories, laundry tubs, etc.), plumbers' brass goods (faucets, spigots, valves, fittings, etc.), range boilers (galvanized-iron and nonferrous), and miscellaneous bathroom and other fittings used in plumbers' work. Manufacturers of vitreous-china and semivitreous or porcelain (all-clay) sanitary ware are classified in the "Vitreous-china plumbing fixtures" industry, and manufacturers of concrete laundry trays in the "Concrete products" industry, but production figures for these classes of sanitary ware are included in table 4 because of the close relation between them and the specified products of the "Enameled-iron sanitary ware and other plumbers' supplies (not including pipe and vitreous and semivitreous china sanitary ware)" industry. Faucets, spigots, valves, fittings, etc., are made to a considerable extent by establishments classified in other industries. No data for such production are included in table 4,

but statistics covering the total production of this class of products, so far as separately reported to the Bureau of the Census, will be found in table 4 of the report for the "Machine-shop products not elsewhere classified" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1923 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	259	24,605	\$30,768,552	\$52,630,117	\$125,578,189	\$72,948,072	23,258
1937.....	241	25,240	30,635,144	50,116,242	113,920,049	63,803,807	(⁵)
1935.....	252	20,136	21,334,893	32,120,470	75,630,769	43,510,299	(⁵)
1933.....	232	15,893	12,921,717	17,561,300	46,885,998	29,324,698	(⁵)
1931.....	238	19,688	20,440,001	26,003,009	70,935,892	44,932,883	(⁵)
1929.....	255	27,960	37,066,997	49,032,599	129,673,784	80,641,185	24,288
1927.....	231	29,245	40,212,198	55,633,327	145,262,311	89,628,984	25,009
1925.....	239	33,280	46,953,808	63,610,253	167,878,414	104,268,161	28,434
1923.....	234	27,201	38,046,537	51,469,378	132,664,774	81,195,396	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

⁷ No comparable data for prior years.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Massachusetts	Michigan
Number of establishments ¹	259	20	9	35	7	16	14
Proprietors and firm members.....	74	18	1	6	1	2	2
Persons reported by manufacturing establishments, total ²	28,498	1,685	752	2,469	537	715	1,827
Salaried officers of corporations ³	385	19	11	57	8	22	17
Manufacturing:							
Salaried employees ⁴	2,266	99	92	249	47	66	173
Wage earners (average for the year) ⁵	24,605	1,496	615	1,872	465	602	1,532
Distribution.....	1,186	71	34	288	17	25	103
Construction.....	50			3			2
Other.....	6						
Salaries and wages, total ⁶	\$40,280,684	\$2,600,707	\$1,158,828	\$3,880,192	\$644,730	\$1,076,388	\$2,881,788
Salaried officers ⁷	2,476,465	133,428	93,428	478,096	52,520	79,877	151,906
Manufacturing:							
Salaries ⁸	4,350,741	210,033	198,815	443,026	82,336	95,574	376,882
Wages.....	30,768,552	2,124,727	765,373	2,397,797	490,822	834,711	1,974,102
Distribution.....	2,591,301	132,519	101,212	555,933	19,052	66,226	374,677
Construction.....	81,170			5,340			3,077
Other.....	12,455						1,144
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	52,630,117	3,816,045	1,620,423	5,340,070	1,147,468	1,693,674	4,027,385
Materials, supplies, and containers.....	48,409,592	3,584,819	1,526,384	5,127,630	1,117,898	1,604,709	3,830,360
Fuel.....	2,473,318	160,114	54,483	96,549	14,321	32,578	97,519
Purchased electric energy.....	1,269,232	84,978	30,055	80,846	12,749	40,169	94,538
Contract work.....	477,975	6,134	9,501	35,045	2,500	16,218	4,968
Value of products.....	125,578,189	9,239,875	3,312,386	12,039,322	2,507,758	3,976,459	8,165,147
Value added by manufacture ⁹	72,948,072	5,423,830	1,691,963	6,699,252	1,360,290	2,282,785	4,137,762

See footnotes at end of table.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Missouri	New Jersey	New York	Ohio	Pennsylvania	Wisconsin	Other States ¹
Number of establishments ¹	8	13	35	33	32	14	23
Proprietors and firm members.....	2	1	19	6	8	2	6
Persons reported by manufacturing establishments, total ²	295	1,309	1,138	3,317	4,187	3,909	6,357
Salaried officers of corporations ³	17	23	34	53	49	36	39
Manufacturing:							
Salaried employees ³	38	112	80	218	357	311	424
Wage earners (average for the year) ³	236	1,137	949	2,885	3,614	3,352	5,849
Distribution.....	4	37	74	157	161	176	39
Construction.....			1	4	6	30	4
Other.....						4	2
Salaries and wages, total ²	\$370,806	\$1,986,153	\$1,514,510	\$4,754,295	\$5,907,768	\$5,892,072	\$7,612,447
Salaried officers ¹	58,756	170,262	150,062	373,986	237,549	260,076	236,529
Manufacturing:							
Salaries ³	49,170	270,264	133,118	391,659	644,484	681,019	774,361
Wages.....	258,079	1,455,625	1,094,619	3,627,368	4,677,261	4,554,954	6,513,114
Distribution.....	4,801	90,012	135,908	356,962	338,518	335,143	80,338
Construction.....			803	4,320	9,956	51,063	6,611
Other.....						9,817	1,494
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	431,177	2,643,506	3,088,941	6,081,458	7,603,322	6,363,047	8,773,301
Materials, supplies, and containers.....	413,729	2,413,189	2,915,340	5,587,910	6,728,686	5,632,039	7,946,890
Fuel.....	11,481	98,971	19,135	294,401	428,672	581,388	583,406
Purchased electric energy.....	5,967	104,875	46,095	183,565	238,019	127,515	218,961
Contract work.....		26,771	108,371	15,573	206,745	22,105	24,044
Value of products.....	971,281	6,125,547	5,578,613	13,623,961	17,980,566	18,479,155	23,573,119
Value added by manufacture ⁴	540,104	3,481,741	2,489,672	7,542,503	10,377,244	12,116,108	14,804,818

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Alabama, 1 establishment; Delaware, 2; Georgia, 1; Iowa, 1; Kansas, 1; Kentucky, 1; Maine, 2; Maryland, 4; Minnesota, 1; Mississippi, 1; New Hampshire, 1; Oregon, 1; Rhode Island, 2; Tennessee, 1; Texas, 1; Virginia, 1; Washington, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Enameled-iron Sanitary Ware and Other Plumbers' Supplies (Not Including Pipe and Vitreous and Semivitreous China Sanitary Ware) industry, all products, total value.....	\$125,578,189	\$113,920,049	\$129,673,784
Enameled-iron sanitary ware and other plumbers' supplies made in this industry.....	115,071,793	103,279,867	114,829,771
Miscellaneous products not specified.....	859,705		
Receipts for contract and repair work.....	613,412	10,640,182	14,844,013
Other products (not classified in this industry).....	19,033,279		
Enameled-iron sanitary ware and other plumbers' supplies, total value.....	144,314,871	129,916,732	148,529,006
Enameled-iron sanitary ware and other plumbers' supplies made in this industry.....	115,071,793	103,279,867	114,829,771
Vitreous-china and semivitreous or porcelain (all-clay) plumbing fixtures (exclusive of fittings) made in the "Vitreous-china plumbing fixtures" industry.....	22,105,454	20,625,366	28,957,476
Concrete laundry trays made in the "Concrete products" industry.....	976,094	682,731	1,101,829
Enameled-iron sanitary ware and other plumbers' supplies (except plumbers' brass goods) made as secondary products in other industries.....	6,161,530	5,328,768	3,639,930

¹ Value of tanks, water heaters, gray-iron castings, nonferrous castings, cast-iron furnaces, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939	1937	1929
Total value.....	\$144,314,871	\$129,916,732	\$148,529,006
Enameled-iron sanitary ware, total value.....	\$43,357,286	\$34,677,059	\$45,288,155
Bathtubs:			
Number.....	886,939	712,134	943,905
Value.....	\$20,115,341	\$15,731,811	\$21,855,379
Lavatories:			
Number.....	1,149,383	943,840	1,116,847
Value.....	\$6,908,146	\$6,065,179	\$8,050,040

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
Enameled-iron sanitary ware—Continued.			
Laundry tubs:			
Number.....	75,360	55,871	
Value.....	\$530,757	\$467,182	
Sink and laundry-tray combinations:			
Number.....	210,770	148,320	1,385,934
Value.....	\$3,650,048	\$2,597,412	\$15,882,736
Sinks:			
Number.....	1,272,368	1,057,647	
Value.....	\$11,807,007	\$9,564,563	
Flush tanks:			
Number.....	70,288	21,236	(2)
Value.....	\$184,614	\$173,500	(3)
Drinking fountains, value.....	\$161,373	\$77,412	(3)
Tanks and shells for water heaters:			
Number.....	141,741	162,426	
Value.....	\$1,542,679	\$1,590,287	
Range boilers: ⁴			
Galvanized-iron, 18- to 192-gallon capacity:			783,044
Number.....	1,087,597	928,637	\$4,616,180
Value.....	\$6,762,348	\$5,952,728	
Copper and nonferrous-alloy, 25- to 180-gallon capacity:			
Number.....	35,268	39,586	35,193
Value.....	\$887,172	\$1,113,319	\$1,293,941
Vitreous-china plumbing fixtures (exclusive of fittings), total value.....	\$21,778,475	\$20,148,355	\$24,992,047
Bathroom and toilet fixtures:			
Closet bowls—			
Siphon jets—			
Number.....	193,627	136,580	317,672
Value.....	\$1,557,813	\$1,111,601	\$2,095,647
Washdowns—			
Number.....	904,637	940,628	1,364,804
Value.....	\$3,364,613	\$3,747,142	\$5,651,120
Reverse traps—			
Number.....	486,305	310,995	207,221
Value.....	\$3,035,395	\$1,861,994	\$1,005,491
Flush tanks, lowdown (large and small)—			
Number.....	1,245,266	1,182,489	1,202,396
Value.....	\$6,162,215	\$5,259,228	\$6,476,911
Lavatories—			
Number.....	278,571	269,384	347,809
Value.....	\$3,004,456	\$3,123,462	\$4,779,710
Stalls—			
Number.....	41,450	31,346	(2)
Value.....	\$1,115,901	\$890,070	

See footnotes at end of table.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
Vitreous-china plumbing fixtures—Con. Bathroom and toilet fixtures—Con. Other bathroom and toilet fixtures (recessed and attachable), value.....	\$2, 975, 470	\$3, 463, 931	\$3, 531, 119
Other vitreous-china fixtures, value.....	\$562, 612	\$686, 027	\$1, 452, 049
Semivitreous or porcelain (all-clay) plumbing fixtures (exclusive of fittings), value.....	\$326, 979	\$477, 011	\$3, 965, 429
Concrete laundry trays:			
Number.....	207, 109	(⁶)	(⁶)
Value.....	\$976, 094	\$682, 731	\$1, 101, 829
Faucets and spigots reported separately ¹ :			
Number reported—			
Number.....	8, 865, 613	7, 489, 644	(²)
Value.....	\$7, 481, 964	\$6, 449, 024	
Number not reported, value.....	\$2, 266, 104	\$2, 500, 663	
Other plumbers' brass and bronze goods (in- cluding faucets and spigots not separately reported), value ¹	\$43, 109, 160	\$40, 182, 498	\$46, 612, 661
Toilet seats:			
Wood—			
Number.....	2, 615, 318	1, 758, 420	
Value.....	\$4, 076, 727	\$2, 990, 377	
Rubber and sheet-covered—			
Number.....	702, 949	968, 315	
Value.....	\$2, 410, 135	\$2, 727, 573	
Sinks, other than enameled-iron (monel, stainless-steel, etc.), total value.....	\$836, 990	\$866, 556	
Number reported—			\$20, 658, 764
Number.....	9, 273	7, 167	
Value.....	\$436, 119	\$428, 099	
Number not reported, value.....	\$400, 871	\$438, 457	

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
Drinking fountains other than enameled- iron and vitreous-china:			
Number.....	31, 845	36, 112	
Value.....	\$240, 121	\$348, 251	
Other plumbers' supplies, value.....	\$8, 253, 637	\$9, 210, 300	

¹ Includes value of a small production of enameled pressed steel.² No data.³ Value included in last figure in this column.⁴ Not including water heaters. For production of water heaters with storage tanks and water heaters without tanks, see report for "Stoves, ranges, water heaters, and hot-air furnaces (except electric)," table 4, p. 252.⁵ Reported in tons (2,000 pounds).⁶ Made in the "Enameled-iron sanitary ware and other plumbers' supplies (not including pipe and vitreous and semivitreous china sanitary ware)" industry. For total production, see report for "Machine-shop products not elsewhere classified."

TABLE 5.—CONSUMPTION OF PIG IRON AND SCRAP IRON AND STEEL, PURCHASED AS SUCH, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939 AND 1937

KIND	1939 ¹		1937	
	Tons (2,240 pounds)	Cost	Tons (2,240 pounds)	Cost
Pig iron.....	165, 083	\$3, 559, 151	150, 878	\$3, 251, 051
Scrap iron and steel, purchased as such.....	76, 115	1, 017, 310	52, 964	790, 697

¹ In addition establishments classified in this industry reported the consumption of iron and steel sheets, plates, and strip as follows: 57,715 tons (2,000 pounds) costing \$2,776,798 and \$164,754 for which no quantity was reported.

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	Febru- ary	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
United States:													
1939.....	24, 605	23, 412	23, 413	23, 471	23, 629	23, 728	23, 925	24, 420	24, 742	25, 331	26, 244	26, 555	26, 387
1937.....	25, 240	24, 722	25, 353	26, 017	26, 102	26, 385	26, 220	25, 764	25, 675	25, 689	25, 247	23, 642	22, 061
1929.....	27, 960	29, 255	29, 610	29, 593	29, 516	29, 281	28, 694	28, 046	28, 124	27, 661	26, 915	25, 623	23, 205
California.....	1, 496	1, 350	1, 393	1, 398	1, 423	1, 466	1, 486	1, 534	1, 552	1, 579	1, 604	1, 620	1, 544
Connecticut.....	615	559	585	588	537	577	558	569	598	626	710	732	743
Illinois.....	1, 872	1, 879	1, 807	1, 707	1, 841	1, 808	1, 822	1, 869	1, 883	1, 928	1, 974	2, 006	1, 942
Indiana.....	465	380	388	390	413	453	467	491	500	501	525	538	539
Maryland.....	638	666	580	675	607	604	610	609	624	667	670	675	664
Massachusetts.....	602	546	573	570	564	568	582	590	617	621	655	665	673
Michigan.....	1, 532	1, 459	1, 453	1, 451	1, 465	1, 475	1, 467	1, 479	1, 509	1, 577	1, 647	1, 700	1, 705
Missouri.....	236	223	222	222	223	232	242	247	253	237	245	243	237
New Jersey.....	1, 137	1, 088	1, 107	1, 105	1, 127	1, 110	1, 112	1, 110	1, 113	1, 129	1, 213	1, 224	1, 207
New York.....	949	888	909	917	911	912	896	932	957	979	1, 018	1, 023	1, 044
Ohio.....	2, 885	2, 719	2, 726	2, 786	2, 765	2, 833	2, 815	2, 817	2, 861	2, 932	3, 070	3, 173	3, 124
Pennsylvania.....	3, 614	3, 354	3, 363	3, 358	3, 425	3, 457	3, 552	3, 650	3, 717	3, 806	3, 871	3, 928	3, 883
Wisconsin.....	3, 352	3, 139	3, 135	3, 143	3, 162	3, 071	3, 218	3, 398	3, 415	3, 458	3, 690	3, 690	3, 709

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	259
Reporting expenditures for plant and equipment.....	160
Value of products:	
Total for the industry.....	\$125,578,189
Reporting expenditures for plant and equipment.....	113,283,976
Expenditures for plant and equipment:	
Total for the industry.....	1,830,375
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	332,517
Expenditures for new machinery and operating equipment.....	1,401,939
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	95,919

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$23,558,518	\$22,193,769
Finished products.....	12,051,785	12,476,418
Materials, supplies, etc.....	11,506,733	9,717,351
End of year, total.....	24,134,833	26,323,716
Finished products.....	10,692,148	14,770,143
Materials, supplies, etc.....	13,442,685	11,553,573
Value of products for the industry, total.....	125,578,189	113,920,049
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	125,449,587	110,428,822
Value for establishments not reporting inventories.....	128,602	3,491,227

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929		1939	1929
Number of establishments.....	259	255	Prime movers—Continued.		
Number of establishments reporting power equipment.....	258	251	Prime movers not driving generators—Continued.		
Prime movers, aggregate:			Hydroturbines and water wheels—		
Number.....	56	95	Number.....	2	
Horsepower.....	23,258	24,298	Horsepower.....	110	(3)
Prime movers, driving generators, total—			Prime movers not driving generators, ordinarily idle (included above), horsepower.....	60	
Number.....	31	195	Generators, kilowatt rating, total.....	10,575	10,230
Horsepower.....	14,381	124,298	Generators, driven by—		
Steam engines—			Steam engines, kilowatt rating.....	7,298	
Number.....	19	175	Steam turbines, kilowatt rating.....	1,105	
Horsepower.....	9,901	118,900	Diesel and semi-Diesel engines, kilowatt rating.....	350	
Steam turbines—			Other internal-combustion engines, ² kilowatt rating.....	7	(3)
Number.....	4	13	Hydroturbines and water wheels, kilowatt rating.....	1,815	
Horsepower.....	1,895	2,170	Generators, ordinarily idle (included above), kilowatt rating.....	600	
Diesel and semi-Diesel engines—			Electric motors, total:		
Number.....	3	11	Number.....	13,495	9,501
Horsepower.....	525	1,933	Horsepower.....	101,378	91,116
Other internal-combustion engines ¹ —			Driven by purchased energy—		
Number.....	1		Number.....	10,984	7,599
Horsepower.....	35		Horsepower.....	83,759	76,523
Hydroturbines and water wheels—			Driven by energy generated in establishments reporting—		
Number.....	4	16	Number.....	2,511	1,902
Horsepower.....	2,025	2,295	Horsepower.....	17,619	14,593
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	836		Electric energy (kilowatt-hours):		
Prime movers not driving generators, total—			Generated in plant.....	25,247,590	(4)
Number.....	25	(3)	Sold.....	5,410,000	(3)
Horsepower.....	8,877		Purchased.....	84,470,234	131,735,853
Steam engines—					
Number.....	21				
Horsepower.....	8,627				
Diesel and semi-Diesel engines—					
Number.....	2				
Horsepower.....	140				

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

OIL BURNERS, DOMESTIC AND INDUSTRIAL

[A preliminary report for this industry was issued December 23, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the production of domestic, commercial, and industrial fuel-oil burners made for sale as such; distillate-oil burners, and kerosene-oil burners that are produced for sale separately. Boiler-burner units complete (fuel-oil) are classified in the "Steam and hot-water heating apparatus (including hot-water furnaces)" industry. Furnace-burner units complete (fuel-oil) and stoves, ranges, room heaters, water heaters complete with burner are classified in the "Stoves, ranges, water heaters, and hot-air furnaces (except electric)" industry. The oil-burner industry is one of five formerly covered by the classification "Heating and cooking apparatus, except electric." A

retabulation of the 1937 reports was made to obtain figures comparable with those for 1939. No figures are available for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	130	1,498	\$1,893,283	\$10,272,883	\$18,468,017	\$8,195,134	957
1937 ⁴	113	1,865	2,314,808	9,354,988	19,033,608	9,678,620	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable figures for earlier years. ⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Maryland	Massachusetts	Minnesota
Number of establishments ¹	130	7	10	13	3	4	14	6
Proprietors and firm members.....	32	6	.....	3	1	2	2	5
Persons reported by manufacturing establishments, total ²	2,723	226	309	639	58	165	182	59
Salaried officers of corporations ³	173	5	26	22	5	4	17	4
Manufacturing:								
Salaried employees ³	541	30	78	109	6	54	20	9
Wage earners (average for the year) ³	1,498	140	153	386	33	82	102	28
Distribution.....	501	51	52	122	14	18	43	18
Other.....	10	.....	.....	.....	.....	7	.....	.....
Salaries and wages, total ²	\$4,588,075	\$353,775	\$641,163	\$1,007,094	\$106,309	\$285,235	\$321,292	\$76,785
Salaried officers ³	791,146	57,265	140,616	111,793	17,400	27,863	72,940	13,228
Manufacturing:								
Salaries ³	863,141	53,742	148,280	171,386	7,872	74,125	23,801	9,303
Wages.....	1,893,283	184,867	204,832	457,143	38,976	116,807	141,776	36,329
Distribution.....	1,032,383	57,901	147,435	266,772	42,061	61,876	82,775	17,925
Other.....	8,122	.....	.....	.....	.....	5,064	.....	.....
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	10,272,883	776,560	1,294,570	1,558,090	303,408	697,822	380,933	108,261
Materials and supplies.....	10,082,182	766,404	1,246,387	1,529,692	302,587	688,404	369,837	99,904
Fuel.....	58,668	1,593	13,000	12,312	128	4,163	3,880	1,897
Purchased electric energy.....	75,977	6,140	9,380	15,886	693	5,255	4,888	2,129
Contract work.....	56,056	2,423	25,803	200	.....	.....	2,328	4,331
Value of products.....	18,468,017	1,467,397	2,402,562	3,095,663	448,934	1,235,304	747,962	268,067
Value added by manufacture ⁴	8,195,134	690,837	1,107,992	1,537,573	145,526	537,482	367,029	159,806

See footnotes at end of table.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	New Jersey	New York	Oregon	Pennsylvania	Rhode Island	Washington	Wisconsin	Other States ¹
Number of establishments ¹	13	21	4	7	6	3	3	16
Proprietors and firm members.....	1	2	2	1	2	1	1	4
Persons reported by manufacturing establishments, total ²	138	292	23	229	23	17	32	330
Salaried officers of corporations ¹	17	31	3	19	3	3	3	11
Manufacturing:								
Salaried employees ¹	26	58	4	44	3	4	5	91
Wage earners (average for the year) ¹	78	173	9	83	17	9	16	188
Distribution.....	17	30	7	82	1	1	7	39
Other.....				1			1	1
Salaries and wages, total ²	\$250,775	\$490,137	\$23,170	\$366,578	\$48,409	\$31,442	\$38,038	\$538,873
Salaried officers ²	89,773	94,690	5,100	71,328	19,085	13,385	5,378	51,302
Manufacturing:								
Salaries ²	42,391	90,547	5,544	61,864	5,653	4,562	6,170	157,901
Wages.....	91,498	244,309	8,979	100,908	23,671	12,023	13,185	217,980
Distribution.....	36,113	60,591	3,547	132,070		1,472	11,805	111,040
Other.....				408			2,000	650
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	1,352,261	1,325,840	51,387	635,525	170,246	53,992	54,801	1,509,137
Materials and supplies.....	1,338,825	1,299,174	50,737	624,927	168,343	48,579	53,259	1,495,123
Fuel.....	6,379	2,996	183	5,273	812	304	853	4,915
Purchased electric energy.....	5,461	9,142	487	5,325	1,091	720	689	8,691
Contract work.....	1,596	14,528				4,389		458
Value of products.....	1,816,718	2,333,309	96,821	1,186,798	299,322	94,994	119,025	2,855,141
Value added by manufacture ⁴	464,457	1,007,469	45,434	551,273	129,076	41,002	64,224	1,345,954

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Iowa, 4 establishments; Maine, 1; Michigan, 2; Missouri, 3; North Carolina, 1; Ohio, 2; Texas, 1; Virginia, 2.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Oil Burners, Domestic and Industrial industry, all products, total value.....	\$18,468,017	\$19,033,608
Oil burners, domestic and industrial, made in this industry.....	14,983,964	16,473,598
Miscellaneous products not specified.....	557,234	
Receipts for contract and repair work.....	340,611	2,560,010
Other products (not classified in this industry).....	2,586,208	
Oil burners, domestic and industrial, total value.....	20,585,050	22,753,902
Oil burners, domestic and industrial made in this industry.....	14,983,964	16,473,598
Oil burners, domestic and industrial made as secondary products in other industries.....	5,601,086	6,280,304

¹ Value of oil-burning stoves, ranges, room and water heaters, and furnace-burner units complete.

TABLE 4.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
Pig iron.....	Tons (2,240 pounds) 152	\$3,090	
Iron and steel castings, purchased as such.....	Tons (2,000 pounds) 5,112	769,071	\$178,937
Iron and steel pipe.....	120	12,118	37,181
Iron and steel sheets, plates, and strip:			
Carbon.....	483	28,491	43,750
Alloy, except stainless.....	819	65,342	7,809
Stainless.....	94	44,577	25,469
Iron and steel sheets, vitreous enamel.....			10,650

TABLE 5.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Oil burners, domestic and industrial, total value.....	\$20,585,050	\$22,753,902
Mechanical or forced draft:		
Domestic oil burners—		
Number.....	173,222	177,667
Value.....	\$12,799,560	\$16,767,961
Commercial oil burners—		
Number.....	10,439	4,454
Value.....	\$1,579,039	\$668,913
Atmospheric, domestic and commercial:		
Number.....	14,571	3,575
Value.....	\$500,165	\$136,539
Industrial oil burners:		
Number reported—		
Number.....	16,063	10,306
Value.....	\$2,646,970	\$1,623,873
Number not reported, value.....	\$336,738	\$305,073
Distillate and kerosene-oil burners for sale separately:		
Number.....	160,453	185,779
Value.....	\$1,178,804	\$1,785,680
Parts for oil burners, value.....	\$1,543,774	\$1,465,863

¹ Combined to avoid disclosing, exactly or approximately, data reported by individual establishments.² Reported as domestic only.

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	1,498	1,341	1,396	1,451	1,328	1,402	1,457	1,482	1,613	1,733	1,771	1,558	1,442
1937.....	1,865	1,708	1,674	1,810	1,904	1,550	2,013	2,070	2,038	2,117	2,156	1,721	1,622
California.....	140	139	143	142	142	136	137	133	133	139	143	147	145
Connecticut.....	153	141	141	141	140	140	144	147	163	180	192	160	145
Illinois.....	386	345	394	435	326	394	404	378	356	439	471	378	313
Indiana.....	33	33	33	33	33	33	31	31	32	32	35	35	33
Iowa.....	72	50	56	58	56	57	70	80	100	100	104	70	62
Maryland.....	82	70	70	72	75	76	81	90	99	94	94	82	81
Massachusetts.....	102	102	96	98	96	94	102	100	105	110	111	108	102
Minnesota.....	28	28	28	28	25	26	26	29	29	32	32	29	28
Missouri.....	16	12	13	13	12	11	10	11	15	18	22	27	28
New Jersey.....	78	68	74	70	58	64	70	75	88	93	97	93	84
New York.....	173	158	156	161	168	172	165	174	185	183	179	188	190
Oregon.....	9	9	9	9	9	9	9	9	9	9	9	10	10
Pennsylvania.....	83	59	62	68	65	67	77	85	113	112	114	89	84
Rhode Island.....	17	14	14	13	14	16	24	18	19	23	19	18	16
Washington.....	9	7	10	10	9	8	9	9	9	8	9	9	9

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	130
Reporting expenditures for plant and equipment.....	56
Value of products:	
Total for the industry.....	\$18,468,017
Reporting expenditures for plant and equipment.....	13,900,235
Expenditures for plant and equipment:	
Total for the industry.....	157,437
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	14,666
Expenditures for new machinery and operating equipment.....	134,219
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	8,552

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$4,634,054	\$4,707,690
Finished products.....	2,130,675	1,812,426
Materials, supplies, etc.....	2,503,379	2,895,264
End of year, total.....	4,442,596	5,788,645
Finished products.....	1,991,065	2,388,156
Materials, supplies, etc.....	2,451,531	3,400,489
Value of products for the industry, total.....	18,468,017	19,033,608
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	18,274,126	18,202,819
Value for establishments not reporting inventories.....	190,891	830,789

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	130
Number of establishments reporting power equipment.....	130
Prime movers, aggregate:	
Number.....	14
Horsepower.....	957
Prime movers, driving generators, total—	
Number.....	9
Horsepower.....	770
Diesel and semi-Diesel engines—	
Number.....	6
Horsepower.....	640
Other internal-combustion engines ² —	
Number.....	2
Horsepower.....	60
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	7
Prime movers not driving generators, total—	
Number.....	5
Horsepower.....	187
Internal-combustion engines other than Diesel and semi-Diesel ² —	
Number.....	
Horsepower.....	187
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	120
Generators, kilowatt rating, total.....	481
Generators, driven by—	
Diesel and semi-Diesel engines, kilowatt rating.....	426
Other internal-combustion engines, ² kilowatt rating.....	40
Hydroturbines and water wheels, kilowatt rating.....	15
Electric motors, total:	
Number.....	1,974
Horsepower.....	4,319
Driven by purchased energy—	
Number.....	1,905
Horsepower.....	4,020
Driven by energy generated in establishments reporting—	
Number.....	69
Horsepower.....	299
Electric energy (kilowatt-hours):	
Generated in plant.....	85,000
Purchased.....	2,471,672

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

POWER BOILERS AND ASSOCIATED PRODUCTS

[A preliminary report for this industry was issued December 27, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of power boilers, smokestacks, heavy tanks, plate work (cut, punched, and shaped for assembly on job), and miscellaneous boiler-shop products. The classification does not cover the manufacture of range boilers which are classified in the "Enameled-iron sanitary ware and other plumbers' supplies (not including pipe and vitreous and semi-vitreous china sanitary ware)" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1933 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	448	18,888	\$25,298,161	\$70,654,747	\$140,959,533	\$70,304,786	22,764
1937.....	453	24,485	33,842,085	82,979,232	165,279,797	82,300,565	(9)
1935.....	413	13,290	14,769,993	36,598,326	73,170,472	36,572,146	(9)
1933 ⁷	292	9,805	9,093,992	23,480,693	45,866,223	22,385,525	(9)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

⁷ No comparable data for prior years.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Florida	Illinois	Iowa	Kansas	Kentucky	Louisiana	Maryland	Massachusetts	Michigan	Missouri
Number of establishments ¹	448	39	8	3	43	5	7	4	6	5	18	16	12
Proprietors and firm members.....	199	30	3	2	24	5	4	4	5	2	3	8	7
Persons reported by manufacturing establishments, total ²	25,509	1,513	294	106	1,626	283	157	85	139	179	481	544	1,616
Salaried officers of corporations ²	661	39	13	4	56	13	3	8	9	9	33	23	24
Manufacturing:													
Salaried employees ²	4,046	130	43	14	221	31	19	12	11	14	60	96	239
Wage earners (average for the year) ²	18,888	1,227	214	84	1,283	225	122	62	111	142	369	399	1,201
Distribution.....	1,882	114	24	4	62	13	13	3	8	14	18	26	162
Construction.....	21	2	—	—	3	—	—	—	—	—	—	—	—
Other.....	11	—	—	—	1	—	—	—	—	—	—	—	—
Salaries and wages, total ²	\$40,337,636	\$2,226,478	\$501,063	\$121,045	\$2,855,309	\$351,705	\$245,042	\$118,460	\$154,165	\$249,433	\$824,608	\$840,141	\$2,638,433
Salaried officers ²	3,277,693	172,958	67,681	17,162	313,439	51,859	27,200	30,694	21,500	43,046	164,142	89,654	245,727
Manufacturing:													
Salaries ²	7,928,343	259,184	67,744	20,402	483,878	43,808	36,993	16,901	19,399	24,380	111,116	155,329	461,786
Wages.....	25,298,161	1,581,161	322,237	75,811	1,873,364	231,603	166,047	63,863	103,373	163,827	494,677	536,531	1,666,368
Distribution.....	3,783,037	206,733	43,401	7,670	175,974	24,193	14,802	7,002	9,893	18,180	53,151	58,627	264,562
Construction.....	39,918	6,462	—	—	7,654	—	—	—	—	—	—	—	—
Other.....	10,484	—	—	—	1,000	242	—	—	—	—	1,522	—	—
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	70,654,747	4,265,261	839,839	128,910	5,579,974	516,156	461,302	146,886	380,220	402,702	1,354,417	1,502,167	4,420,613
Materials and supplies.....	66,695,297	3,878,610	723,352	120,431	5,282,465	490,407	376,515	143,251	370,208	386,407	1,266,215	1,083,437	4,298,192
Fuel.....	996,683	12,576	12,656	6,866	70,676	10,391	1,632	1,154	1,937	3,486	20,648	106,888	25,890
Purchased electric energy.....	1,461,592	79,696	9,038	1,613	97,263	15,358	8,555	2,481	6,445	11,209	27,674	23,087	70,507
Contract work.....	1,501,175	294,379	94,793	—	129,570	—	74,600	—	1,430	1,000	39,980	288,755	26,024
Value of products.....	140,959,533	7,994,144	1,650,546	333,975	10,159,345	1,065,426	816,943	338,056	657,036	775,442	2,543,090	2,848,529	8,444,670
Value added by manufacture ⁴	70,304,786	3,728,883	810,707	205,065	4,579,372	549,270	355,641	191,170	276,816	372,740	1,193,673	1,346,362	4,024,057

ITEM	Nebraska	New Jersey	New York	Ohio	Oklahoma	Oregon	Pennsylvania	Tennessee	Texas	Washington	West Virginia	Wisconsin	Other States ⁵
Number of establishments ¹	4	12	41	45	11	3	57	6	23	14	3	20	43
Proprietors and firm members.....	4	2	12	15	3	4	17	—	15	9	3	6	21
Persons reported by manufacturing establishments, total ²	103	590	1,295	4,915	840	129	5,190	999	820	246	60	826	2,472
Salaried officers of corporations ²	5	18	58	77	19	6	100	13	25	13	1	32	60
Manufacturing:													
Salaried employees ²	12	85	171	1,213	159	19	883	137	100	33	6	71	267
Wage earners (average for the year) ²	82	472	932	3,031	605	97	3,975	826	653	184	52	653	1,886
Distribution.....	4	15	193	594	87	7	224	22	41	16	1	70	247
Construction.....	—	—	—	—	—	—	—	—	—	—	—	—	8
Other.....	—	—	—	—	—	—	—	—	—	—	—	—	4
Salaries and wages, total ²	\$153,780	\$901,896	\$2,019,064	\$8,365,650	\$1,260,206	\$192,444	\$8,488,034	\$1,231,356	\$1,169,798	\$362,603	\$68,062	\$1,454,357	\$3,544,604
Salaried officers ²	21,460	96,747	274,237	310,540	90,985	14,460	547,989	101,640	111,164	46,400	3,500	167,382	246,127
Manufacturing:													
Salaries ²	21,264	149,585	343,048	2,215,293	130,963	28,282	1,982,670	239,346	169,091	54,316	8,125	198,928	506,532
Wages.....	105,525	631,486	1,160,559	4,522,907	739,341	141,075	5,493,626	848,833	749,795	236,852	54,637	987,934	2,346,729
Distribution.....	5,531	24,078	240,020	1,316,910	118,917	8,627	452,418	39,412	138,976	24,935	1,800	100,113	427,122
Construction.....	—	—	1,200	—	—	—	9,136	2,125	—	—	—	—	13,341
Other.....	—	—	—	—	—	—	2,195	—	772	—	—	—	4,753
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	170,307	1,483,312	3,372,666	8,508,494	3,500,108	370,129	16,577,000	2,035,128	3,196,115	483,820	154,626	1,981,510	8,823,085
Materials and supplies.....	161,242	1,409,742	3,139,396	7,953,650	3,425,582	360,029	15,769,233	1,919,829	3,134,904	465,982	146,085	1,839,644	8,550,489
Fuel.....	1,567	15,397	79,219	219,303	8,759	544	188,555	48,399	8,527	2,451	1,084	77,350	70,728
Purchased electric energy.....	4,696	51,138	105,613	301,303	60,601	9,556	272,515	66,900	51,670	12,819	6,857	52,241	112,657
Contract work.....	2,802	7,035	48,438	34,238	5,166	—	346,697	—	1,014	2,568	600	12,275	89,211
Value of products.....	485,588	3,100,120	6,861,876	25,217,899	6,355,993	600,526	30,543,604	3,692,661	5,100,697	993,181	273,525	4,887,318	15,214,342
Value added by manufacture ⁴	315,281	1,616,808	3,489,210	16,709,405	2,855,885	230,397	13,966,604	1,657,533	1,904,582	509,361	118,899	2,905,808	6,391,257

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Persons engaged—general classification.

³ See GENERAL EXPLANATIONS—Wage earners and wages.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Alabama, 7 establishments; Arkansas, 1; Colorado, 2; Delaware, 1; Georgia, 3; Idaho, 1; Indiana, 10; Maine, 1; Minnesota, 5; Mississippi, 1; Nevada, 1; New Mexico, 1; North Carolina, 1; Rhode Island, 2; Utah, 2; Vermont, 1; Virginia, 3.

CENSUS OF MANUFACTURES: 1939

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Power Boilers and Associated Products industry, all products, total value.....	\$140,959,533	\$165,279,797
Power boilers and associated products made in this industry.....	108,555,487	124,935,533
Miscellaneous products, not specified.....	8,645,005	
Receipts for contract and repair work.....	6,372,217	40,344,264
Merchandise sold without processing.....	1,221,364	
Other products (not classified in this industry).....	16,165,460	
Power boilers and associated products, aggregate value.....	132,857,941	156,218,170
Power boilers and associated products made in this industry.....	108,555,487	124,935,533
Power boilers and associated products made as secondary products in other industries.....	24,302,454	31,282,637

¹ Value of structural steel, steam and hot-water heating boilers, range boilers, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Aggregate	
Total value.....	\$108,555,487	\$24,302,454	\$132,857,941	\$156,218,170
Boilers, power, pressure over 15 pounds per square inch ¹ :				
Number reported—				
Number.....	8,872	2,365	11,237	11,874
Value.....	\$21,134,217	\$2,150,496	\$23,284,713	\$26,609,913
Number not reported, value.....	\$70,901	\$25,759	\$96,660	\$1,286,931
Stacks (smoke and other) complete or assembled:				
Quantity reported—				
Tons (2,000 pounds).....	7,124	983	8,107	12,111
Value.....	\$981,908	\$140,860	\$1,122,768	\$1,885,989
Quantity not reported, value.....	\$494,170	\$10,710	\$504,880	\$421,817
Tanks (iron and steel, complete at factory):				
Pressure—				
Number reported—				
Number.....	370,937	121,258	492,195	292,050
Value.....	\$10,951,804	\$1,446,166	\$12,397,970	\$9,777,922
Number not reported, value.....	\$1,265,464	\$378,515	\$1,643,979	\$7,820,806
Septic—				
Number reported—				
Number.....	51,084	19,939	71,023	46,247
Value.....	\$699,955	\$257,564	\$957,519	\$864,273
Number not reported, value.....	\$89,997	\$43,826	\$133,823	\$263,967
Truck—				
Number reported—				
Number.....	4,865	441	5,306	5,426
Value.....	\$4,062,092	\$161,392	\$4,223,484	\$4,297,861
Number not reported, value.....	\$1,489,793	\$301,583	\$1,791,376	\$523,394
Other—				
Number reported—				
Number.....	155,539	249,442	404,981	256,845
Value.....	\$11,945,431	\$2,764,417	\$14,709,848	\$20,148,305
Number not reported, value.....	\$4,472,774	\$1,351,431	\$5,824,205	\$20,713,124
Plate steel, fabricated (cut, punched, or shaped for assembly on job):				
For oil-storage tanks—				
Quantity reported—				
Tons (2,000 pounds).....	142,337	6,846	149,183	
Value.....	\$10,182,168	\$1,347,797	\$11,529,965	
Quantity not reported, value.....	\$1,237,614	\$150,049	\$1,387,663	
For water-storage tanks—				
Quantity reported—				
Tons (2,000 pounds).....	31,896	11,460	43,356	
Value.....	\$4,887,256	\$1,123,742	\$6,010,998	
Quantity not reported, value.....	\$303,780	\$3,720	\$307,500	

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939			1937
	Produced in the industry	Produced in other industries	Aggregate	
Plate steel, fabricated, etc.—Con.				
For gas holders—				
Quantity reported—				
Tons (2,000 pounds).....	4,577	624	5,201	
Value.....	\$849,742	\$64,003	\$913,745	
Quantity not reported, value.....	\$389,392		\$389,392	\$54,578,848
Other plate work, cut, punched, or shaped for assembly on job—				
Quantity reported—				
Tons (2,000 pounds).....	82,756	25,941	108,697	
Value.....	\$9,196,428	\$3,251,908	\$12,448,336	
Quantity not reported, value.....	\$5,260,340	\$2,885,813	\$8,146,153	
Other plate steel products:				
Quantity reported—				
Tons (2,000 pounds).....			87,151	
Value.....			\$11,545,971	
Quantity not reported, value.....			\$7,365,949	
Forged or welded pressure stills and similar vessels, over 20 inches inside diameter and with metal walls ¼ inch and more in thickness:				
Quantity reported—				
Tons (2,000 pounds).....	\$1,745	\$21,415	16,009	(4)
Value.....	\$12,542,578	\$2,261,607	\$3,258,214	\$3,730,899
Quantity not reported, value.....	\$6,047,683	\$4,181,096	\$2,862,830	\$3,295,521

¹ The schedule for 1939 called for the inclusion of hot-water boilers to be operated at pressure exceeding 160 pounds or temperatures exceeding 250° F.

² Because of a change in the wording of the questionnaire for 1939, the figures for the items, "Other" tanks, "Plate steel, fabricated," and "Other plate steel products" for 1937 are not strictly comparable with those for 1939. The combined totals for these items, however, are considered comparable.

³ Figures combined to avoid disclosing, exactly or approximately, data reported by individual establishments.

⁴ Reported in number in 1937.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Tons (2,000 pounds)	Cost
Iron and steel bars (except reinforcing bars) and small shapes, not including alloy and stainless, total cost.....		\$1,970,242
Quantity and cost reported.....	36,881	1,922,489
Cost only reported.....		47,753
Reinforcing bars (all types), total cost.....		350,314
Quantity and cost reported.....	5,368	305,145
Cost only reported.....		45,169
Iron and steel structural shapes not assembled or fabricated, total cost.....		4,625,414
Quantity and cost reported.....	87,864	4,281,634
Cost only reported.....		343,780
Iron and steel sheets and strips, total cost.....		5,204,447
Quantity and cost reported.....	87,483	4,456,266
Cost only reported.....		748,181
Iron and steel plates, total cost.....		22,051,078
Quantity and cost reported.....	412,272	18,630,719
Cost only reported.....		3,420,359
Stainless steel, total cost.....		1,243,261
Quantity and cost reported.....	1,493	1,093,669
Cost only reported.....		149,592
Alloy steel, except stainless, total cost.....		733,784
Quantity and cost reported.....	1,676	728,276
Cost only reported.....		4,508

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	18,888	16,664	16,873	17,054	17,410	17,933	18,348	18,925	19,383	19,913	20,889	21,419	21,851
1937.....	24,485	22,389	22,510	23,435	24,419	24,779	25,305	26,106	26,145	26,116	25,528	24,292	22,797
Alabama.....	420	415	425	404	378	414	440	443	430	389	417	436	444
California.....	1,227	1,120	1,048	1,119	1,113	1,173	1,320	1,322	1,269	1,296	1,316	1,208	1,335
Connecticut.....	214	181	208	199	199	208	201	219	234	230	225	229	230
Florida.....	84	81	78	77	76	77	78	88	93	87	82	87	85
Georgia.....	318	313	313	312	312	320	318	314	322	309	322	326	330
Illinois.....	1,283	1,099	1,128	1,204	1,220	1,291	1,301	1,271	1,402	1,384	1,343	1,378	1,380
Indiana.....	229	220	198	173	190	204	213	246	254	251	243	278	275
Iowa.....	225	221	225	221	223	219	224	228	229	232	225	226	223
Kansas.....	122	108	122	119	130	112	112	113	129	140	125	128	131
Kentucky.....	62	64	56	57	56	66	63	67	62	66	68	60	56
Louisiana.....	111	94	115	123	113	119	115	117	114	104	109	99	105
Maryland.....	142	129	119	132	134	130	141	145	139	149	152	158	170
Massachusetts.....	399	315	293	303	324	346	358	372	379	412	455	455	416
Michigan.....	399	361	357	402	417	411	423	424	422	412	386	390	388
Minnesota.....	297	213	240	273	255	266	274	297	340	363	340	342	304
Missouri.....	1,201	987	1,001	1,004	990	1,084	1,163	1,262	1,304	1,506	1,464	1,345	1,311
Nebraska.....	82	84	82	81	81	82	80	81	81	85	82	82	82
New Jersey.....	472	487	470	456	459	446	456	454	465	469	485	503	511
New York.....	932	858	870	897	905	905	917	951	920	944	971	992	1,048
Ohio.....	3,031	2,326	2,471	2,572	2,563	2,653	2,859	2,879	3,067	3,213	3,774	3,885	4,111
Oklahoma.....	605	544	524	561	611	638	626	634	721	596	573	620	615
Oregon.....	97	50	50	53	113	133	124	118	103	103	99	85	99
Pennsylvania.....	3,975	3,595	3,613	3,563	3,653	3,734	3,677	3,838	3,903	4,083	4,471	4,709	4,884
Tennessee.....	826	991	961	753	751	787	764	752	756	780	810	897	916
Texas.....	653	628	651	647	622	652	643	648	663	685	652	667	680
Virginia.....	173	131	133	130	134	142	155	171	201	239	205	213	219
Washington.....	184	163	170	200	219	183	164	169	170	189	208	202	174
West Virginia.....	52	49	57	49	48	40	35	39	51	62	68	71	61
Wisconsin.....	653	439	473	502	657	652	674	811	702	684	740	752	751

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	448
Reporting expenditures for plant and equipment.....	291
Value of products:	
Total for the industry.....	\$140,959,533
Reporting expenditures for plant and equipment.....	123,183,467
Expenditures for plant and equipment:	
Total for the industry.....	2,642,522
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	788,266
Expenditures for new machinery and operating equipment.....	1,655,878
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	106,908
Expenditures unclassified.....	1,470

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$22,794,607	\$22,380,384
Finished products.....	4,176,680	4,428,825
Materials, supplies, etc.....	18,617,927	17,957,559
End of year, total.....	28,737,255	27,410,274
Finished products.....	4,377,152	5,469,754
Materials, supplies, etc.....	24,360,103	21,940,520
Value of products for the industry, total.....	140,959,533	165,270,707
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	140,431,314	162,175,815
Value for establishments not reporting inventories.....	528,219	3,103,982

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939		1939
Number of establishments.....	448	Prime movers—Continued.	
Number of establishments reporting power equipment.....	445	Prime movers not driving generators—Continued.	
Prime movers, aggregate:		Diesel and semi-Diesel engines—	
Number.....	266	Number.....	35
Horsepower.....	22,764	Horsepower.....	635
Prime movers, driving generators, total—		Other internal-combustion engines ² —	
Number.....	107	Number.....	88
Horsepower.....	12,799	Horsepower.....	4,765
Steam engines—		Prime movers not driving generators, ordinarily idle (included above), horsepower.....	215
Number.....	60	Generators, kilowatt rating, total.....	9,784
Horsepower.....	8,960	Generators, driven by—	
Steam turbines—		Steam engines, kilowatt rating.....	7,007
Number.....	1	Steam turbines, kilowatt rating.....	500
Horsepower.....	750	Diesel and semi-Diesel engines, kilowatt rating.....	1,242
Diesel and semi-Diesel engines—		Other internal-combustion engines, ² kilowatt rating.....	879
Number.....	13	Hydroturbines and water wheels, kilowatt rating.....	96
Horsepower.....	1,775	Generators, ordinarily idle (included above), kilowatt rating.....	1,870
Other internal-combustion engines ² —		Electric motors, total:	
Number.....	32	Number.....	17,441
Horsepower.....	1,214	Horsepower.....	220,915
Hydroturbines and water wheels—		Driven by purchased energy—	
Number.....	1	Number.....	15,539
Horsepower.....	100	Horsepower.....	201,841
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	2,090	Driven by energy generated in establishments reporting—	
Prime movers not driving generators, total—		Number.....	1,902
Number.....	169	Horsepower.....	19,074
Horsepower.....	9,965	Electric energy (kilowatt-hours):	
Steam engines—		Generated in plant.....	9,438,069
Number.....	36	Sold.....	62,854
Horsepower.....	4,576	Purchased.....	89,176,004

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

STEAM AND HOT-WATER HEATING APPARATUS (INCLUDING HOT-WATER FURNACES)

[A preliminary report for this industry was issued December 20, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of cast iron and steel steam and hot-water heating boilers and parts, gas and oil-burner units complete, cast iron and non-ferrous radiators, gas- and oil-fired radiators. Steam boilers exceeding 15-pound pressure and also hot-water boilers to be operated at pressures exceeding 160 pounds or temperatures exceeding 250° F. are classified in the "Power boilers and associated products" industry. The "Steam and hot-water heating apparatus" industry, one of a group of five formerly covered by the classification "Heating and cooking apparatus, except electric," was given a separate classification at the census for 1939 for the first time. The reports for

1937 were retabulated to obtain figures comparable with those for 1939, but there are no comparable figures available for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	68	8,493	\$9,921,515	\$17,165,268	\$45,377,801	\$28,212,533	9,761
1937 ⁴	60	9,774	11,705,292	17,907,497	43,633,509	25,726,102	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable data for prior years.

⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Indiana	New Jersey	New York	Pennsylvania	Other States ¹
Number of establishments ¹	68	4	6	10	26	22
Proprietors and firm members.....	10				6	4
Persons reported by manufacturing establishments, total ²	10,024	501	1,058	2,359	2,809	3,297
Salaried officers of corporations ³	76	5		4	36	31
Manufacturing:						
Salaried employees ³	924	35	70	256	278	285
Wage earners (average for the year) ⁴	8,493	413	988	2,054	2,377	2,601
Distribution.....	521	42		45	114	320
Construction.....	10	6			4	
Other.....						
Salaries and wages, total ⁵	\$12,950,200	\$599,851	\$1,379,702	\$3,083,693	\$3,357,976	\$4,523,978
Salaried officers ³	399,699	15,232		17,600	178,700	188,167
Manufacturing:						
Salaries ³	1,677,972	71,178	166,001	487,199	451,679	501,915
Wages.....	9,921,515	384,119	1,213,701	2,508,050	2,516,183	3,299,462
Distribution.....	938,032	121,700		70,844	208,054	539,434
Construction.....	12,982	7,622			8,360	
Other.....						
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	17,165,268	641,037	1,861,758	3,574,372	4,748,109	6,339,992
Materials and supplies.....	15,718,041	580,068	1,634,676	3,220,663	4,365,419	5,917,215
Fuel.....	942,239	40,883	193,979	214,374	235,155	257,848
Purchased electric energy.....	498,706	20,086	33,103	139,335	144,733	161,449
Contract work.....	6,282				2,802	3,480
Value of products.....	45,377,801	1,685,836	4,883,704	11,155,973	11,494,623	16,257,665
Value added by manufacture ⁶	28,212,533	944,799	3,021,946	7,581,601	6,746,514	9,917,673

¹ California, 3 establishments; Connecticut, 2; Illinois, 6; Massachusetts, 1; Michigan, 3; Minnesota, 2; Ohio, 1; Washington, 1; Wisconsin, 3.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

STEAM AND HOT-WATER HEATING APPARATUS

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TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Steam and Hot-Water Heating Apparatus (Including Hot-Water Furnaces) industry, all products, total value.....	\$45,377,801	\$43,633,599
Steam and hot-water heating apparatus made in this industry.....	38,141,811	38,457,830
Miscellaneous products and receipts for contract and repair work.....	818,844	5,175,769
Other products (not classified in this industry).....	16,417,146	
Steam and hot-water heating apparatus, total value.....	46,494,267	47,249,294
Steam and hot-water heating apparatus made in this industry.....	38,141,811	38,457,830
Steam and hot-water heating apparatus made as secondary products in other industries.....	8,352,456	8,791,464

¹ Value of gray-iron castings, pressure tanks, warm-air furnaces, and unit heaters

TABLE 4.—PRINCIPAL MATERIALS CONSUMED BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
	<i>Tons (2,240 lbs.)</i>		
Pig iron.....	89,421	\$1,930,378	
Scrap iron and steel.....	162,896	2,409,731	
	<i>Tons (2,000 lbs.)</i>		
Iron and steel castings, purchased as such.....	1,985	209,296	\$38,123
Iron and steel pipe.....	609	50,981	210,307
Iron and steel sheets, plates and strip:			
Carbon.....	31,780	1,607,581	9,313
Alloy, except stainless.....	58	6,390	3,200
Stainless.....	1	1,567	
Iron and steel sheets, vitreous enamel.....	11	880	

TABLE 5.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$46,494,267	\$47,249,294
Steam and hot-water heating boilers and parts, total value.....	\$24,698,417	\$26,763,388
Cast iron steam and hot-water heating boilers:		
Number reported—		
Number.....	113,901	86,463
Value.....	\$10,893,189	\$8,262,887
Number not reported, value.....	\$4,162,552	\$7,712,366
Steel steam and hot-water heating boilers:		
Number reported—		
Number.....	28,255	23,695
Value.....	\$7,915,663	\$8,349,509
Number not reported, value.....	\$168,329	\$1,127,452
Parts for heating boilers, value.....	\$1,558,679	\$1,311,174
Radiators, total value.....	\$17,876,441	\$17,086,782
Cast Iron.....	\$15,489,188	\$14,749,497
Copper.....	\$2,247,760	\$2,269,969
Gas- and oil-fired radiators.....	\$139,487	\$67,316
Boiler-burner units, total value ¹	\$3,919,409	\$3,399,124
Fuel-oil boiler-burner units, complete:		
Number.....	11,042	9,398
Value.....	\$2,533,926	\$2,326,287
Gas boiler-burner units, complete:		
Number reported—		
Number.....	6,043	5,241
Value.....	\$805,368	\$798,731
Number not reported, value.....	\$580,115	\$274,106

¹ For production of furnace-burner units, see report for "Stoves, ranges, water heaters, and hot-air furnaces (except electric)," end of table 4, p. 253.

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	8,493	7,649	7,882	7,694	7,907	7,863	8,282	8,498	9,024	9,486	9,687	9,235	8,704
1937.....	9,774	10,734	11,009	11,265	11,379	10,462	10,250	9,821	9,254	9,736	9,323	7,786	6,274
California.....	33	21	22	28	31	31	31	34	36	43	43	47	32
Illinois.....	1,004	978	927	933	939	969	973	981	1,035	1,105	1,125	1,061	1,016
Indiana.....	413	395	418	417	426	308	415	413	415	434	442	439	437
Michigan.....	357	365	284	302	318	332	341	354	380	420	432	395	364
New Jersey.....	988	1,052	1,053	1,019	811	719	829	868	1,016	1,126	1,153	1,108	1,099
New York.....	2,054	1,852	1,897	1,633	2,086	2,074	2,119	2,156	2,236	2,387	2,222	2,076	1,907
Pennsylvania.....	2,377	1,935	2,180	2,179	2,103	2,147	2,229	2,320	2,583	2,635	2,900	2,773	2,536

CENSUS OF MANUFACTURES: 1939

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	68
Reporting expenditures for plant and equipment.....	48
Value of products:	
Total for the industry.....	\$45,377,801
Reporting expenditures for plant and equipment.....	41,746,172
Expenditures for plant and equipment:	
Total for the industry.....	1,134,104
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	154,555
Expenditures for new machinery and operating equipment.....	969,569
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	9,980

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$11,771,861	\$10,052,883
Finished products.....	7,019,329	4,947,170
Materials, supplies, etc.....	4,752,532	5,105,713
End of year, total.....	12,129,617	11,005,727
Finished products.....	6,240,505	5,246,337
Materials, supplies, etc.....	5,889,112	5,759,390
Value of products for the industry, total.....	45,377,801	43,633,599
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	45,377,801	43,576,754
Value for establishments not reporting inventories.....		56,845

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939		1939
Number of establishments.....	68	Prime movers—Continued.	
Number of establishments reporting power equipment.....	66	Prime movers not driving generators—Continued.	
Prime movers, aggregate:		Internal-combustion engines, ² other than Diesel and semi-Diesel—	
Number.....	22	Number.....	4
Horsepower.....	9,761	Horsepower.....	170
Prime movers, driving generators, total—		Generators, kilowatt rating, total.....	4,624
Number.....	10	Generators, driven by—	
Horsepower.....	6,851	Steam engines, kilowatt rating.....	2,274
Steam engines—		Steam turbines, kilowatt rating.....	2,350
Number.....	7	Generators, ordinarily idle (included above), kilowatt rating.....	1,500
Horsepower.....	3,426	Electric motors, total:	
Steam turbines—		Number.....	5,749
Number.....	3	Horsepower.....	52,161
Horsepower.....	3,425	Driven by purchased energy—	
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	2,400	Number.....	5,139
Prime movers not driving generators, total—		Horsepower.....	45,736
Number.....	12	Driven by energy generated in establishments reporting—	
Horsepower.....	2,910	Number.....	610
Steam engines—		Horsepower.....	6,425
Number.....	8	Electric energy (kilowatt-hours):	
Horsepower.....	2,740	Generated in plant.....	6,471,175
		Purchased.....	34,961,580

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

STOVES, RANGES, WATER HEATERS, AND HOT-AIR FURNACES (EXCEPT ELECTRIC)

[A preliminary report for this industry was issued December 31, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of stoves, ranges, warm-air furnaces, space heaters, and water heaters (except electric). It also includes the production of oil and gas warm-air furnaces complete with burners. This industry is one of a group of five formerly covered by the "Heating and cooking apparatus, except electric" industry; the manufacture of electric heating and cooking apparatus is classified in the "Electrical appliances" industry. A retabulation of the 1937 reports was made to obtain figures comparable with

those for 1939, but there are no figures available for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	449	41,701	\$48,069,160	\$97,475,213	\$223,427,130	\$125,951,917	19,814
1937 ⁴	409	49,570	\$9,399,580	107,826,043	236,719,963	128,893,920	(5)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable figures for prior years. ⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Alabama	California	Connecticut	Florida	Georgia	Illinois	Indiana	Iowa	Kentucky
Number of establishments ¹	449	8	65	7	4	7	48	19	8	4
Proprietors and firm members.....	148	2	50	-----	1	-----	12	3	2	-----
Persons reported by manufacturing establishments, total ²	50,984	1,513	3,613	481	77	922	6,397	1,488	737	641
Salaried officers of corporations ³	724	16	70	18	6	16	81	37	13	13
Manufacturing:										
Salaried employees ³	4,465	54	266	86	10	52	520	142	46	57
Wage earners (average for the year) ³	41,701	1,385	2,910	352	50	817	5,403	1,099	534	471
Distribution.....	3,861	58	323	25	11	29	388	185	144	98
Construction.....	75	-----	8	-----	-----	1	2	9	-----	-----
Other.....	158	-----	36	-----	-----	7	3	16	-----	2
Salaries and wages, total ³	\$68,890,420	\$1,412,394	\$5,225,464	\$582,806	\$102,918	\$991,416	\$8,899,723	\$2,312,283	\$1,034,393	\$867,872
Salaried officers ³	4,730,289	102,037	404,179	52,213	12,735	95,217	469,326	224,115	137,471	134,616
Manufacturing:										
Salaries ³	7,913,661	84,626	427,692	128,614	11,209	107,473	1,071,939	231,223	89,285	112,320
Wages.....	48,069,160	1,122,258	3,662,128	368,080	55,818	708,171	6,451,849	1,327,821	574,642	441,069
Distribution.....	7,854,738	103,473	681,775	33,899	23,156	74,575	901,988	501,848	232,995	176,743
Construction.....	118,828	-----	10,073	-----	-----	1,300	2,337	8,149	-----	-----
Other.....	203,744	-----	39,617	-----	-----	4,680	2,284	10,127	-----	2,524
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	97,475,213	1,113,130	9,435,657	871,379	130,158	729,111	13,222,544	3,125,507	1,267,749	1,035,154
Materials and supplies.....	91,222,399	980,058	9,123,322	815,452	128,104	667,022	12,315,873	2,928,730	1,233,078	1,004,536
Fuel.....	2,400,689	72,069	71,532	23,346	60	32,924	327,435	59,932	20,111	13,129
Purchased electric energy.....	1,671,091	39,103	97,458	13,060	361	19,137	171,239	53,847	14,560	17,489
Contract work.....	2,181,034	21,900	143,295	19,521	1,633	10,028	407,997	83,498	-----	-----
Value of products.....	223,427,130	3,560,979	20,379,388	1,769,312	283,541	2,178,044	28,436,015	7,095,668	3,230,248	2,633,477
Value added by manufacture ⁴	125,951,917	2,447,849	10,943,731	897,933	153,383	1,448,933	15,213,471	3,970,161	1,962,499	1,598,323

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Maryland	Massachusetts	Michigan	Minnesota	Missouri	New Jersey	New York	Ohio	Oklahoma
Number of establishments ¹	5	15	35	11	20	10	24	51	4
Proprietors and firm members.....		2	6	4	7	1	4	10	3
Persons reported by manufacturing establishments, total ²	430	2,320	5,434	664	2,396	442	2,081	8,588	37
Salaried officers of corporations ²	9	27	67	14	41	11	54	76	1
Manufacturing:									
Salaried employees ²	47	174	522	70	202	82	184	890	5
Wage earners (average for the year) ³	355	1,990	4,500	456	1,650	311	1,740	7,025	31
Distribution.....	19	128	311	124	503	38	103	495	
Construction.....		1	10					31	
Other.....			15					71	
Salaries and wages, total ⁴	\$573,281	\$3,629,949	\$7,588,852	\$940,680	\$3,220,424	\$656,145	\$3,002,697	\$12,470,645	\$36,558
Salaried officers ²	37,632	238,016	475,783	70,138	298,696	43,993	289,671	625,616	3,600
Manufacturing:									
Salaries ²	65,429	321,966	903,324	112,557	330,353	124,045	341,151	1,651,183	3,891
Wages.....	408,687	2,782,615	5,532,141	557,304	1,921,191	373,856	2,127,051	8,944,097	29,067
Distribution.....	61,533	286,018	655,225	200,681	670,184	114,251	244,824	1,066,017	
Construction.....		1,334	19,646					61,553	
Other.....			2,733					122,179	
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	661,337	4,717,101	10,396,190	1,267,777	4,107,422	917,439	4,282,800	18,827,309	33,237
Materials and supplies.....	617,757	4,380,253	9,798,941	1,219,954	3,866,766	829,647	4,010,910	17,463,254	32,100
Fuel.....	28,449	164,990	320,049	19,735	110,424	46,151	166,173	410,237	580
Purchased electric energy.....	15,131	104,131	198,650	28,088	44,966	12,087	104,514	260,741	587
Contract work.....		67,727	78,550		76,266	29,554	1,203	663,077	
Value of products.....	1,463,240	11,829,114	24,982,648	2,523,340	10,900,027	1,760,566	9,343,636	44,443,796	85,452
Value added by manufacture ⁴	801,903	7,112,013	14,586,458	1,255,593	6,792,605	843,127	5,060,836	25,616,487	52,215

ITEM	Oregon	Pennsylvania	Tennessee	Texas	Virginia	Washington	West Virginia	Wisconsin	Other States ⁵
Number of establishments ¹	7	36	19	5	4	7	4	11	11
Proprietors and firm members.....	13	21	3	1		1		1	1
Persons reported by manufacturing establishments, total ²	296	3,748	4,471	88	208	280	317	2,398	918
Salaried officers of corporations ²	1	49	38	3	8	9	9	18	19
Manufacturing:									
Salaried employees ²	25	394	235	8	19	23	9	261	82
Wage earners (average for the year) ³	262	2,988	4,006	74	168	228	274	1,851	763
Distribution.....	8	309	180	3	13	19	25	268	54
Construction.....			12			1			
Other.....		8							
Salaries and wages, total ⁴	\$377,856	\$5,002,205	\$4,162,942	\$108,128	\$231,545	\$444,935	\$337,766	\$3,414,109	\$1,262,434
Salaried officers ²	9,000	282,811	282,211	17,013	33,553	81,266	41,100	144,003	124,278
Manufacturing:									
Salaries ²	45,789	618,471	346,287	11,034	38,184	43,141	18,153	481,207	193,115
Wages.....	305,166	3,520,777	3,048,321	74,412	143,000	282,484	239,040	2,221,542	845,973
Distribution.....	17,901	569,546	472,187	5,669	16,808	37,544	39,473	567,357	99,063
Construction.....			13,936			500			
Other.....		10,600							
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	379,605	7,697,454	5,673,914	469,960	147,002	382,320	456,969	4,417,348	1,709,640
Materials and supplies.....	363,503	7,350,167	4,854,784	464,187	135,260	362,597	438,071	4,153,397	1,654,676
Fuel.....	8,410	148,598	151,134	1,768	7,611	11,118	11,824	141,285	22,565
Purchased electric energy.....	7,652	193,142	149,591	3,255	4,131	8,605	7,074	77,953	25,069
Contract work.....	40	5,547	518,405	750				44,713	7,330
Value of products.....	895,294	16,634,233	12,413,930	680,844	543,827	983,132	1,012,620	9,898,421	3,466,338
Value added by manufacture ⁴	515,689	8,936,779	6,740,016	210,884	396,825	600,812	555,651	5,481,073	1,756,698

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Arkansas, 1 establishment; Colorado, 1; Kansas, 3; Maine, 2; Nebraska, 1; New Hampshire, 1; North Carolina, 1; Rhode Island, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Stoves, Ranges, Water Heaters, and Hot-Air Furnaces (Except Electric) industry, all products, total value.....	\$223,427,130	\$236,719,963
Stoves, ranges, water heaters, and hot-air furnaces made in this industry.....	195,350,548	206,621,718
Miscellaneous products not specified.....	1,948,650	
Receipts for contract and repair work.....	1,276,805	30,098,245
Other products (not classified in this industry).....	124,851,127	
Stoves, ranges, water heaters, and hot-air furnaces (other than electric), total value.....	210,370,251	223,421,492
Stoves, ranges, water heaters, and hot-air furnaces made in this industry.....	195,350,548	206,621,718
Stoves, ranges, water heaters, and hot-air furnaces (except electric) made as secondary products in other industries.....	15,019,703	16,799,77

¹ Value of cast-iron boilers, electric stoves and ranges, gray-iron castings, oil burners, and sheet-metal products.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$210,370,251	\$223,421,492
Warm-air furnaces, parts and registers, total value.....	\$39,053,141	\$38,197,140
Warm-air furnaces manufactured:		
Number reported—		
Number.....	323,676	331,347
Value.....	\$22,031,562	\$25,028,707
Number not reported, value.....	\$6,459,803	\$1,836,561
Furnaces assembled from purchased parts:		
Number reported—		
Number.....	21,978	13,143
Value.....	\$2,189,547	\$1,397,986
Number not reported, value.....	\$39,828	\$254,601
Parts and registers, value.....	\$8,332,401	\$9,679,285

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Stoves, ranges, water heaters, and parts, total value.....	\$166,742,413	\$180,591,562
Coal and wood, total value.....	\$34,594,983	\$44,940,471
Coal and wood cooking stoves and ranges, total value.....	\$20,069,912	\$23,657,772
Porcelain-enameled:		
Number reported—		
Number.....	332,982	380,293
Value.....	\$15,051,906	\$17,147,778
Number not reported, value.....	\$136,459	\$671,362
Other than porcelain-enameled:		
Number reported—		
Number.....	300,169	341,082
Value.....	\$4,881,547	\$5,586,359
Number not reported, value.....		\$252,273
Coal and wood heating stoves, total value.....	\$9,240,881	\$16,854,014
Cast-iron and cast-steel:		
Porcelain-enameled—		
Number reported—		
Number.....	164,735	361,406
Value.....	\$4,515,705	\$10,200,590
Number not reported, value.....	\$127,654	\$321,264
Other—		
Number reported—		
Number.....	398,319	483,009
Value.....	\$3,214,796	\$4,806,595
Number not reported, value.....	\$21,375	\$435,740
Sheet-metal (air-tight, etc.):		
Number.....	474,450	600,729
Value.....	\$1,361,351	\$1,089,825
Coal and wood water heaters (domestic supply), total value.....	\$2,523,133	\$2,057,439
With storage tanks attached:		
Number reported—		
Number.....	25,157	20,322
Value.....	\$542,023	\$393,372
Number not reported, value.....	\$62,447	\$248,892
Without storage tanks:		
Number.....	269,069	186,716
Value.....	\$1,918,663	\$1,415,175
Parts for coal and wood stoves, ranges, and heaters, value.....	\$2,761,057	\$2,371,246
Gas, total value.....	\$90,182,601	\$85,245,341
Gas cooking stoves and ranges, total value.....	\$63,764,012	\$59,708,530
Porcelain-enameled:		
With ovens—		
Number.....	1,463,813	1,393,910
Value.....	\$61,591,574	\$57,675,697
Without ovens—		
Number.....	1,356	137
Value.....	\$22,902	\$11,522
Other than porcelain-enameled with and without ovens:		
Number.....	37,132	26,549
Value.....	\$2,149,536	\$2,021,341
Gas hot plates:		
Number.....	137,848	126,149
Value.....	\$519,427	\$352,021
Gas room heaters:		
Number reported—		
Number.....	662,850	813,258
Value.....	\$4,531,671	\$6,159,949
Number not reported, value.....	\$1,065,364	\$554,370
Gas water heaters (domestic supply), total value.....	\$17,488,742	\$15,836,929
With storage tanks attached:		
Number reported—		
Number.....	495,118	436,143
Value.....	\$14,844,351	\$12,777,703
Number not reported, value.....	\$113,602	
Without storage tanks:		
Number reported—		
Number.....	357,719	304,814
Value.....	\$2,232,070	\$2,379,026
Number not reported, value.....	\$298,719	\$680,200
Parts for gas stoves, ranges, and heaters, value.....	\$2,813,385	\$2,633,542
Kerosene and distillate, total value.....	\$29,590,204	\$35,971,897
Kerosene and distillate cooking stoves and ranges, total value.....	\$13,603,219	\$14,398,124
Kerosene cooking stoves and ranges:		
Number.....	1,099,514	1,278,168
Value.....	\$13,171,231	\$14,081,421
Distillate cooking stoves and ranges:		
Number.....	8,054	15,499
Value.....	\$431,988	\$366,703

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Stoves, ranges, water heaters, and parts—Continued.		
Kerosene and distillate—Continued.		
Kerosene and distillate room heaters, total value.....	\$12,532,707	\$17,420,278
Pot-type distillate or kerosene space heaters:		
Number.....	294,634	379,419
Value.....	\$8,632,984	\$12,250,107
Sleeve-type distillate or kerosene-burning heaters:		
Number.....	63,481	46,814
Value.....	\$1,317,890	\$1,472,472
Portable fuelless room heaters, wick-type and wickless type:		
Number.....	361,243	481,120
Value.....	\$2,581,833	\$3,706,699
Kerosene and distillate water heaters (domestic supply), total value.....	\$1,449,705	\$936,950
Kerosene-burning water heaters:		
Wickless type—		
Number.....	18,958	15,488
Value.....	\$251,096	\$199,835
Wick type—		
Number.....	14,690	19,758
Value.....	\$204,605	\$302,132
Distillate-burning water heaters, pot-type and sleeve-type:		
Number.....	33,565	13,526
Value.....	\$994,004	\$434,983
Parts for kerosene and distillate stoves, ranges, and heaters, value.....	\$2,004,573	\$3,207,545
Gasoline, total value.....	\$1,724,844	\$3,987,134
Gasoline cooking stoves (except camp stoves) and ranges, porcelain enameled and other:		
Number.....	51,384	105,069
Value.....	\$834,713	\$1,529,559
Gasoline camp stoves:		
Number.....	121,066	179,954
Value.....	\$314,751	\$661,695
Gasoline water heaters and parts for gasoline stoves, ranges, and heaters, value.....	\$575,380	\$795,880
Combination (coal, wood, and gas) cooking stoves and ranges, total value.....	\$9,714,787	\$8,705,550
Porcelain-enameled:		
Number reported—		
Number.....	99,504	96,956
Value.....	\$9,422,988	\$8,044,952
Number not reported, value.....	\$192,697	
Other than porcelain-enameled:		
Number.....	663	7,138
Value.....	\$99,102	\$660,598
Laundry, orchard, etc.		
Number.....	\$34,994	\$1,503,652
Stoves, ranges, water heaters, etc., not specified by kind, value.....		\$237,517
Furnace-burner units ¹ :		
Fuel-oil furnace-burner units:		
Number.....	19,455	11,916
Value.....	\$2,947,581	\$2,600,041
Gas-furnace-burner units:		
Number reported—		
Number.....	20,582	23,515
Value.....	\$1,528,110	\$1,972,706
Number not reported, value.....	\$99,006	\$60,043

¹ Revised.² For production of boiler-burner units, see report for "Steam and hot-water heating apparatus."

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
Pig iron.....	Tons (2,240 lbs.) 195,613	\$4,119,854	
Scrap iron and steel.....	103,058	1,486,303	
Iron and steel castings, purchased as such.....	Tons (2,000 lbs.) 37,333	4,117,200	\$860,714
Iron and steel pipe.....	4,780	421,407	94,192
Iron and steel sheets, plates and strip:			
Carbon.....	227,142	12,131,672	303,344
Alloys, except stainless.....	23,838	1,773,312	393,671
Stainless.....	579	311,964	2,359
Iron and steel sheets, vitreous enamel.....	62,421	4,380,273	443,631

CENSUS OF MANUFACTURES: 1939

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	41,701	33,878	37,917	39,652	40,460	41,297	41,684	42,447	43,885	45,186	46,794	45,392	41,816
1937	49,570	44,443	49,115	50,770	52,296	53,251	54,159	50,041	53,272	53,576	51,645	44,940	37,333
Alabama	1,385	1,149	1,306	1,372	1,391	1,403	1,434	1,367	1,450	1,460	1,485	1,474	1,326
California	2,910	2,485	2,586	2,616	2,645	2,737	2,796	2,875	3,107	3,282	3,463	3,279	3,047
Connecticut	352	312	300	286	288	312	333	358	367	397	416	443	404
Florida	50	52	52	56	48	47	45	46	51	51	53	53	52
Georgia	817	717	842	788	773	764	771	771	877	864	891	902	843
Illinois	5,403	3,804	4,883	5,290	5,439	5,461	5,637	5,776	5,732	5,791	5,954	5,787	5,283
Indiana	1,099	732	976	1,038	1,015	1,028	1,042	1,182	1,238	1,237	1,283	1,258	1,161
Iowa	534	441	462	488	481	532	558	535	573	641	656	583	470
Kansas	484	392	432	433	435	429	470	508	496	525	586	574	528
Kentucky	471	389	426	449	468	475	497	489	422	488	558	506	458
Maryland	355	340	284	261	360	387	406	402	354	362	394	329	379
Massachusetts	1,990	1,199	1,644	1,760	1,749	1,913	1,988	2,088	2,150	2,365	2,507	2,467	2,015
Michigan	4,509	3,575	3,851	4,153	4,293	4,297	4,323	4,688	4,750	5,163	5,226	5,080	4,702
Minnesota	456	188	255	387	438	537	546	545	607	616	547	403	401
Missouri	1,650	1,535	1,673	1,586	1,599	1,612	1,625	1,577	1,733	1,726	1,796	1,753	1,581
New Jersey	311	280	270	281	307	319	337	328	321	312	321	329	330
New York	1,740	1,564	1,613	1,659	1,751	1,761	1,749	1,759	1,783	1,777	1,852	1,863	1,744
Ohio	7,025	5,704	6,542	6,898	7,148	7,419	7,246	6,845	7,297	7,327	7,614	7,272	6,986
Oklahoma	31	32	30	30	28	28	23	27	31	32	41	40	28
Oregon	262	243	237	240	241	249	256	260	273	275	289	286	291
Pennsylvania	2,988	2,628	2,721	2,801	2,826	2,988	3,079	2,961	3,033	3,185	3,341	3,262	3,025
Tennessee	4,066	3,474	3,679	3,872	3,822	3,821	3,628	4,108	4,313	4,354	4,557	4,485	3,955
Texas	74	57	64	64	69	78	83	60	75	83	85	91	84
Virginia	168	111	156	141	131	128	149	158	170	216	244	238	172
Washington	228	219	214	215	209	215	233	245	242	247	245	248	209
West Virginia	274	198	251	256	266	231	269	271	293	319	313	320	300
Wisconsin	1,851	1,823	1,952	1,958	1,957	1,852	1,877	1,939	1,872	1,746	1,749	1,750	1,739

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	449
Reporting expenditures for plant and equipment	293
Value of products:	
Total for the industry	\$223,427,130
Reporting expenditures for plant and equipment	196,669,626
Expenditures for plant and equipment:	
Total for the industry	5,300,547
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	816,139
Expenditures for new machinery and operating equipment	4,296,882
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	186,776
Expenditures unclassified	750

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$42,998,827	\$42,153,079
Finished products	17,556,751	17,715,160
Materials, supplies, etc.	25,442,076	24,437,919
End of year, total	45,683,488	54,988,902
Finished products	17,551,141	24,697,511
Materials, supplies, etc.	28,132,347	30,291,391
Value of products for the industry, total*	223,427,130	236,719,963
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	222,864,511	234,151,011
Value for establishments not reporting inventories	562,619	2,568,952

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939		1939
Number of establishments.....	449	Prime movers—Continued.	
Number of establishments reporting power equipment.....	442	Prime movers not driving generators—Continued.	
Prime movers, aggregate:		Diesel and semi-Diesel engines—	
Number.....	133	Number.....	3
Horsepower.....	19,814	Horsepower.....	498
Prime movers, driving generators, total—		Other internal-combustion engines ² —	
Number.....	70	Number.....	11
Horsepower.....	15,888	Horsepower.....	304
Steam engines—		Hydroturbines and water wheels—	
Number.....	50	Number.....	2
Horsepower.....	9,846	Horsepower.....	55
Steam turbines—		Prime movers not driving generators, ordinarily idle (included above), horsepower.....	20
Number.....	3	Generators, kilowatt rating, total.....	10,988
Horsepower.....	1,329	Generators, driven by—	
Diesel and semi-Diesel engines—		Steam engines, kilowatt rating.....	7,155
Number.....	11	Steam turbines, kilowatt rating.....	905
Horsepower.....	3,463	Diesel and semi-Diesel engines, kilowatt rating.....	2,092
Other internal-combustion engines ² —		Other internal-combustion engines, ² kilowatt rating.....	836
Number.....	6	Generators, ordinarily idle (included above), kilowatt rating.....	1,572
Horsepower.....	1,250	Electric motors, total:	
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	2,058	Number.....	20,298
Prime movers not driving generators, total—		Horsepower.....	115,663
Number.....	63	Driven by purchased energy—	
Horsepower.....	3,926	Number.....	18,549
Steam engines—		Horsepower.....	105,600
Number.....	41	Driven by energy generated in establishments reporting—	
Horsepower.....	2,794	Number.....	1,749
Steam turbines—		Horsepower.....	10,063
Number.....	6	Electric energy (kilowatt-hours):	
Horsepower.....	275	Generated in plant.....	7,601,113
		Purchased.....	108,885,687

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

STEAM FITTINGS, REGARDLESS OF MATERIAL

[A preliminary report for this industry was issued on December 30, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of steam fittings and specialties, such as thermostats and other temperature-control devices, gages, regulators, traps, reducing valves, and other steam specialties. This industry is one of a group of five formerly classified in the "Heating and cooking apparatus, except electric" industry.

Statistics for prior census years.—A retabulation of the reports for 1937 was made and the figures for 1937 in this report are comparable with those for 1939.

Detailed statistics of products.—Fittings and valves are made to a considerable extent by establishments classified in other industries. The figures shown in tables 3 and 4 cover the total production for all industries of a special group of fittings commonly termed steam specialties. Data on the production of valves and fittings other than this special group are also given for that portion made within the industry.

Production of valves and fittings (other than steam specialties) made as secondary products in other industries are not included. Statistics covering the total production of valves and fittings so far as separately reported to the Bureau of the Census will be found in the report for the "Machine-shop products, not elsewhere classified" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	181	21,815	\$29,629,764	\$37,667,330	\$111,985,627	\$74,318,297	14,342
1937 ⁴	154	25,811	35,286,496	38,420,630	124,128,574	85,707,944	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable data available for years prior to 1937.

⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Massachusetts	Michigan	Missouri
Number of establishments ¹	181	13	7	30	7	26	7	5
Proprietors and firm members.....	29	3	—	7	1	1	2	—
Persons reported by manufacturing establishments, total ²	27,931	442	1,706	11,054	295	2,432	204	337
Salaried officers of corporations ³	329	22	13	46	14	48	10	9
Manufacturing:								
Salaried employees ³	4,242	43	381	1,869	45	437	28	30
Wage earners (average for the year) ³	21,815	364	1,295	8,813	199	1,809	118	254
Distribution.....	1,466	13	17	321	37	119	48	44
Construction.....	27	—	—	5	—	19	—	—
Other.....	52	—	—	—	—	—	—	—
Salaries and wages, total ³	\$42,787,133	\$743,220	\$2,558,571	\$17,802,183	\$494,508	\$3,685,325	\$375,653	\$504,649
Salaried officers ³	2,268,760	78,762	77,349	432,430	70,635	418,334	66,519	49,017
Manufacturing:								
Salaries ³	7,856,327	87,950	629,267	3,528,926	60,505	756,935	56,054	51,681
Wages.....	29,629,764	550,079	1,819,617	13,066,823	288,917	2,233,221	154,112	330,797
Distribution.....	2,933,620	26,429	32,338	766,408	74,451	247,008	98,968	73,154
Construction.....	42,302	—	—	7,596	—	29,827	—	—
Other.....	56,360	—	—	—	—	—	—	—
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	37,667,330	721,259	2,600,938	14,673,863	716,269	3,189,710	316,529	449,428
Materials, supplies, and containers.....	35,376,169	706,146	2,442,464	13,665,092	695,700	3,009,070	276,906	435,683
Fuel.....	1,111,176	4,730	65,899	574,856	4,957	75,638	5,549	5,892
Purchased electric energy.....	983,421	7,482	85,577	357,778	12,714	92,182	5,720	7,853
Contract work.....	196,564	2,901	6,998	76,137	2,898	12,820	28,354	—
Value of products.....	111,985,627	2,301,941	7,712,773	44,110,708	1,573,949	9,419,141	1,132,165	1,496,136
Value added by manufacture ⁴	74,318,297	1,580,682	5,111,835	29,436,845	857,680	6,229,431	815,636	1,046,708

See footnotes at end of table.

STEAM FITTINGS

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TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	New Jersey	New York	Ohio	Pennsylvania	Rhode Island	Wisconsin	Other States ⁴
Number of establishments ¹	9	24	18	15	3	8	9
Proprietors and firm members.....	4	3	3	4			1
Persons reported by manufacturing establishments, total ²	502	930	3,311	3,066	193	1,028	2,432
Salaried officers of corporations ²	18	33	42	34	7	20	13
Manufacturing:							
Salaried employees ²	61	96	501	348	16	127	260
Wage earners (average for the year) ³	337	753	2,461	2,455	130	743	2,085
Distribution.....	86	48	253	229	40	137	74
Construction.....			2			1	
Other.....			52				
Salaries and wages, total ²	\$773,238	\$1,305,886	\$5,018,197	\$3,913,498	\$241,149	\$1,606,771	\$3,764,285
Salaried officers ¹	91,847	179,752	290,797	192,935	26,380	155,733	138,270
Manufacturing:							
Salaries ²	120,594	163,679	979,341	581,360	43,565	219,163	577,307
Wages.....	426,752	845,488	3,157,470	2,785,699	114,944	999,272	2,856,573
Distribution.....	134,045	116,967	531,274	353,504	56,260	230,679	192,135
Construction.....			2,955			1,924	
Other.....			56,360				
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	955,151	1,326,677	3,426,445	2,324,077	640,322	1,835,416	4,491,246
Materials, supplies, and containers.....	932,736	1,217,109	3,089,961	2,129,027	616,966	1,778,029	4,381,280
Fuel.....	7,813	51,616	151,745	109,291	4,683	17,453	31,054
Purchased electric energy.....	14,602	34,106	160,018	85,759	5,543	35,175	78,912
Contract work.....		23,846	24,721		13,130	4,759	
Value of products.....	2,805,281	3,325,560	12,648,366	8,597,729	1,094,249	4,746,567	11,021,062
Value added by manufacture ⁴	1,850,130	1,968,883	9,221,921	6,273,652	453,927	2,911,151	6,529,816

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Persons engaged—general classification.

³ See GENERAL EXPLANATIONS—Wage earners and wages.

⁴ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture. ⁵ Iowa, 2 establishments; Maryland, 1; Minnesota, 2; Oregon, 2; Tennessee, 1; Virginia, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Steam Fittings, Regardless of Material Industry, all products, total value.....	\$111,985,627	\$124,128,574
Steam fittings made in this industry.....	96,230,901	109,421,290
Miscellaneous products not specified.....	4,615,765	
Receipts for contract and repair work.....	815,933	14,707,284
Other products (not classified in this industry).....	110,323,028	
Steam fittings, regardless of material, total value ²	102,415,230	\$116,454,326
Steam fittings made in this industry.....	96,230,901	109,421,290
Steam fittings made as secondary products in other industries ⁴	6,184,329	\$7,033,036

¹ Value of fabricated pipe, gray-iron and other castings, instrument charts, and industrial thermometers.

² Includes the production of steam specialties (thermostats, gages, regulators, etc.) for all industries but does not include fittings and valves made as secondary products in other industries. For total production of fittings and valves, see report for "Machine-shop products, not elsewhere classified."

³ Revised.

⁴ Figures cover only a special type of fittings (thermostats, gages, regulators, traps, etc.) commonly termed "Steam specialties." See note 2, above, in reference to the total production of valves and fittings.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$102,415,230	\$116,454,326
Fittings and valves (made in the "Steam fittings regardless of material" industry), value ²	\$59,390,467	\$68,901,592
Specialties, total value.....	\$43,024,763	\$47,552,734
Thermostats, total value.....	\$20,076,174	\$24,639,167
Number reported—		
Number.....	6,476,092	12,041,515
Value.....	\$17,015,707	\$22,806,051
Number not reported, value.....	\$3,000,467	\$1,743,116
Gages, value.....	\$3,372,502	\$2,281,311
Reducing valves, value.....	\$1,691,317	\$921,412
Regulators, value.....	\$5,634,505	\$5,666,678
Traps, value.....	\$4,274,267	\$5,513,670
Other specialties and steam specialties not specified by kind, value.....	\$7,975,998	\$1,530,496

¹ Revised.

² See "Detailed statistics of products," p. 256.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	21,815	19,926	20,457	20,274	21,111	21,076	20,768	21,117	21,698	22,431	24,114	24,538	24,272
1937.....	25,811	24,716	25,470	26,782	27,955	28,243	27,548	26,995	26,888	26,222	24,599	22,813	21,500
California.....	364	321	325	323	347	356	359	325	334	377	442	433	425
Connecticut.....	1,295	1,189	1,221	1,255	1,256	1,242	1,234	1,204	1,197	1,264	1,411	1,496	1,566
Illinois.....	8,813	8,281	8,357	8,428	8,409	8,261	8,290	8,258	8,585	8,954	9,758	10,105	10,135
Indiana.....	199	181	176	177	179	187	202	209	217	231	234	204	196
Massachusetts.....	1,809	1,498	1,570	1,623	1,685	1,735	1,793	1,808	1,848	1,908	2,035	2,058	2,144
Michigan.....	118	108	114	121	121	120	117	116	117	117	115	123	123
Missouri.....	254	195	201	240	277	238	229	242	240	248	275	308	349
New Jersey.....	337	306	317	333	340	334	334	326	333	341	365	356	359
New York.....	753	700	698	709	698	706	730	738	745	773	844	855	840
Ohio.....	2,461	2,435	2,510	1,842	2,477	2,510	2,464	2,444	2,469	2,507	2,533	2,641	2,696
Pennsylvania.....	2,455	2,411	2,480	2,622	2,534	2,420	2,283	2,294	2,269	2,267	2,445	2,597	2,539
Rhode Island.....	130	128	127	123	123	118	118	119	128	136	149	147	143
Wisconsin.....	743	585	586	612	664	713	748	774	820	868	921	870	754

TABLE 6.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
	Tons (2,240 lbs.)		
Pig iron.....	27,993	\$647,110	
Scrap iron and steel.....	54,189	976,726	
	Tons (2,000 lbs.)		
Iron and steel castings, purchased as such.....	9,945	1,511,555	\$143,494
Iron and steel pipe.....	16,379	1,263,277	2,219
Iron and steel sheets, plates and strip:			
Carbon.....	5,636	360,045	10,521
Alloy, except stainless.....	367	54,850	
Stainless.....	21	18,800	564
Iron and steel sheets, vitreous enamel.....			141,902

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	181
Reporting expenditures for plant and equipment.....	125
Value of products:	
Total for the industry.....	\$111,985,627
Reporting expenditures for plant and equipment.....	108,912,843
Expenditures for plant and equipment:	
Total for the industry.....	3,190,830
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	405,965
Expenditures for new machinery and operating equipment.....	2,626,375
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	158,490

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$34,131,185	\$29,656,112
Finished products.....	13,833,886	12,702,450
Materials, supplies, etc.....	20,297,299	16,953,662
End of year, total.....	36,879,847	33,161,781
Finished products.....	12,761,885	17,739,205
Materials, supplies, etc.....	24,117,962	20,422,576
Value of products for the industry, total.....	111,985,627	124,128,574
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	111,918,183	123,426,948
Value for establishments not reporting inventories.....	67,444	701,626

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	181
Number of establishments reporting power equipment.....	181
Prime movers, aggregate:	
Number.....	56
Horsepower.....	14,342
Prime movers, driving generators, total—	
Number.....	24
Horsepower.....	8,345
Steam engines—	
Number.....	22
Horsepower.....	4,660
Steam turbines—	
Number.....	2
Horsepower.....	3,685
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	6,018
Prime movers not driving generators, total—	
Number.....	32
Horsepower.....	5,997
Steam engines—	
Number.....	14
Horsepower.....	4,092
Steam turbines—	
Number.....	16
Horsepower.....	1,883
Internal-combustion engines, ² other than Diesel and semi-Diesel—	
Number.....	1
Horsepower.....	10
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	12
Generators, kilowatt rating, total.....	5,917
Generators, driven by—	
Steam engines, kilowatt rating.....	3,167
Steam turbines, kilowatt rating.....	2,760
Generators, ordinarily idle (included above), kilowatt rating.....	4,325
Electric motors, total:	
Number.....	14,480
Horsepower.....	79,521
Driven by purchased energy—	
Number.....	14,137
Horsepower.....	76,665
Driven by energy generated in establishments reporting—	
Number.....	343
Horsepower.....	2,856
Electric energy (kilowatt-hours):	
Generated in plant.....	1,088,233
Purchased.....	78,665,891

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

HEATING AND COOKING APPARATUS, EXCEPT ELECTRIC, NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued December 31, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments engaged in the manufacture of heating equipment not elsewhere classified. Among the more important items are unit heaters, incubators, brooders, gas burners, steam tables; cafeteria, hotel, and kitchen apparatus. This industry is one of a group of five formerly classified in the "Heating and cooking apparatus, except electric" industry. The reports for 1937 were retabulated to obtain figures comparable with the 1939 figures for the industry, but no figures are available for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	138	2,919	\$3,507,970	\$8,804,884	\$20,329,879	\$11,524,995	(6)
1937 ⁴	94	2,267	3,082,227	6,595,474	15,769,508	9,174,034	7

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable figures for prior years.

⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Massachusetts	Michigan	New Jersey	New York	Ohio	Pennsylvania	Texas	Other States ¹
Number of establishments ²	138	14	22	6	6	6	29	16	10	3	26
Proprietors and firm members.....	60	17	5	3	4	3	13	4	3	1	7
Persons reported by manufacturing establishments, total ³	3,927	105	811	91	286	100	281	713	892	13	633
Salaried officers of corporations ⁴	152	3	32	9	6	6	26	26	10	1	33
Manufacturing:											
Salaried employees ⁴	460	12	86	8	32	15	34	80	109	6	78
Wage earners (average for the year) ⁴	2,919	79	610	62	231	76	202	487	716	6	448
Distribution.....	381	11	83	12	17	3	19	105	57	—	74
Construction.....	4	—	—	—	—	—	—	4	—	—	—
Other.....	11	—	—	—	—	—	—	11	—	—	—
Salaries and wages, total ⁵	\$5,658,865	\$134,568	\$1,043,356	\$85,864	\$401,690	\$163,687	\$500,789	\$989,061	\$1,329,405	\$19,676	\$990,769
Salaried officers ⁴	681,579	5,990	131,604	18,415	37,740	21,140	101,307	144,168	100,310	6,000	114,905
Manufacturing:											
Salaries ⁴	769,304	15,155	135,228	8,489	59,885	27,365	49,871	117,512	213,755	5,736	136,308
Wages.....	3,507,970	96,921	668,736	53,711	274,323	110,385	318,911	524,464	866,556	7,940	586,023
Distribution.....	685,509	16,502	107,788	5,249	29,742	4,797	30,700	188,414	148,784	—	155,533
Construction.....	1,087	—	—	—	—	—	—	1,087	—	—	—
Other.....	13,416	—	—	—	—	—	—	13,416	—	—	—
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	8,804,884	258,617	1,871,488	181,444	657,291	231,113	793,168	1,774,903	1,487,340	37,510	1,512,010
Materials, supplies, and containers.....	8,500,005	228,500	1,825,316	165,167	641,263	222,480	776,736	1,719,459	1,414,815	34,515	1,471,754
Fuel.....	98,798	913	17,995	942	8,452	1,039	6,924	15,593	25,189	139	21,612
Purchased electric energy.....	129,805	2,776	27,111	2,335	6,836	3,111	8,933	24,999	39,382	357	13,965
Contract work.....	76,276	26,428	1,066	13,000	740	4,483	575	14,852	7,954	2,499	4,679
Value of products.....	20,329,879	535,352	4,034,135	351,046	1,673,453	492,744	1,646,169	4,001,782	3,623,521	76,419	3,895,258
Value added by manufacture ⁶	11,524,995	276,735	2,162,647	169,602	1,016,162	261,631	853,001	2,226,879	2,136,181	38,909	2,383,248

¹ Colorado, 2 establishments; Connecticut, 2; Florida, 1; Indiana, 2; Iowa, 1; Kansas, 1; Louisiana, 1; Minnesota, 3; Missouri, 1; New Hampshire, 1; Oklahoma, 2; Oregon, 2; Rhode Island, 1; Washington, 1; Wisconsin, 5.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Heating and Cooking Apparatus, Except Electric, Not Elsewhere Classified industry, all products, total value.....	\$20,329,879	\$15,769,508
Heating and cooking apparatus, except electric, not elsewhere classified.....	16,334,937	12,449,140
Miscellaneous products not specified.....	554,334	—
Receipts for contract and repair work.....	254,589	—
Other products (not classified in this industry).....	13,186,019	—
Heating and cooking apparatus, except electric, not elsewhere classified, total value.....	32,611,148	26,763,802
Heating and cooking apparatus, except electric, not elsewhere classified made in this industry.....	16,334,937	12,449,140
Heating and cooking apparatus, except electric, not elsewhere classified made as secondary products in other industries.....	16,276,211	14,314,662

¹ Value of copper radiators, gas room heaters, electric cooking appliances, and gas furnace-burner units, complete.

TABLE 4.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
Pig iron.....	Tons (2,240 lbs.) 2,270	\$61,246	—
Scrap iron and steel.....	590	7,900	—
Iron and steel castings, purchased as such.....	Tons (2,000 lbs.) 1,270	187,833	\$47,915
Iron and steel pipe.....	287	21,355	9,475
Iron and steel sheets, plates and strip:			
Carbon.....	7,692	501,206	278,528
Alloy, except stainless.....	837	95,553	1,200
Stainless.....	795	613,682	174,883
Iron and steel sheets, vitreous enamel.....	—	—	8,586

TABLE 5.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937	PRODUCT	1939	1937
Total value.....	\$32,611,148	\$26,763,802	Portable ovens (detachable ovens for use on oil, gasoline, and other stoves), total value.....	\$633,180	\$726,414
Unit heaters, total value.....	\$8,740,854	\$7,194,515	Number reported:		
Number reported:			Number.....	281,558	613,027
Number.....	81,540	56,847	Value.....	\$424,580	\$726,414
Value.....	\$5,892,063	\$5,863,376	Number not reported, value.....	208,600	
Number not reported, value.....	2,848,191	1,331,139	Steam tables, except electric, value.....	767,624	414,132
Gas burners (not including boiler or furnace units):			Other cafeteria, hotel, and kitchen apparatus, value.....	6,162,423	4,771,254
Domestic (residence) type, value.....	1,858,474	1,947,925	Incubators, value.....	3,098,726	2,545,757
Commercial and industrial, value.....	953,630	1,160,987	Brooders, value.....	3,535,645	3,041,387
Parts for gas burners, value.....	(1)	717,612	Units for winter air conditioning, complete without furnace, for separate installation, value.....	4,748,981	1,538,576
Incinerators, value.....	288,911	388,326	Other heating and cooking equipment and heating and cooking equipment not reported by kind, value.....	1,822,700	2,316,917

¹ Figures for "Parts for gas burners" are included in the figures for "Other heating and cooking equipment and heating and cooking equipment not reported by kind" to avoid disclosing, exactly or approximately, operations of individual establishments.

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2,919	2,878	2,966	2,990	2,807	2,599	2,663	2,653	2,765	2,910	3,078	3,250	3,465
1937.....	2,267	2,704	2,720	2,535	2,368	1,781	1,754	2,111	2,175	2,247	2,293	2,290	2,221
California.....	79	67	80	88	80	74	74	80	81	77	81	82	84
Illinois.....	610	611	641	707	606	542	530	535	578	569	603	644	758
Massachusetts.....	62	71	74	80	81	70	70	74	59	59	32	32	32
Michigan.....	231	193	193	188	186	182	166	238	254	278	292	305	271
Minnesota.....	25	26	24	25	24	25	27	28	28	22	23	24	27
New Jersey.....	76	67	74	74	71	79	76	80	76	74	81	84	76
New York.....	202	207	208	210	229	209	203	174	195	178	207	200	209
Ohio.....	487	528	543	497	419	387	384	351	386	488	554	625	679
Pennsylvania.....	716	652	663	673	701	669	737	730	733	750	750	762	776
Texas.....	6	4	8	4	5	4	5	6	5	8	6	6	7
Wisconsin.....	147	137	131	120	127	133	145	150	149	158	160	173	177

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

PRODUCT	1939
Number of establishments:	
Total for the industry.....	138
Reporting expenditures for plant and equipment.....	61
Value of products:	
Total for the industry.....	\$20,329,879
Reporting expenditures for plant and equipment.....	14,093,973
Expenditures for plant and equipment:	
Total for the industry.....	296,822
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	96,803
Expenditures for new machinery and operating equipment.....	173,125
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	26,894

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$3,394,095	\$4,000,032
Finished products.....	1,127,445	2,296,507
Materials, supplies, etc.....	2,266,650	1,703,525
End of year, total.....	3,731,602	3,346,985
Value of products for the industry, total.....		
Finished products.....	1,041,234	1,737,071
Materials, supplies, etc.....	2,690,368	1,609,914
Value of products for the industry, total.....	20,329,879	15,769,508
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	20,329,879	13,803,021
Value for establishments not reporting inventories.....		1,966,487

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	138
Number of establishments reporting power equipment.....	137
Prime movers, driving generators, total:	
Number.....	5
Horsepower.....	650
Diesel and semi-Diesel engines—	
Number.....	4
Horsepower.....	500
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	150
Generators, kilowatt rating, total.....	325
Generators, driven by—	
Diesel and semi-Diesel engines, kilowatt rating.....	200
Hydroturbines and water wheels, kilowatt rating.....	125
Electric motors, total:	
Number.....	2,864
Horsepower.....	10,259
Driven by purchased energy—	
Number.....	2,860
Horsepower.....	10,239
Driven by energy generated in establishments reporting—	
Number.....	4
Horsepower.....	20
Electric energy (kilowatt-hours):	
Generated in plant.....	7,000
Purchased.....	5,286,380

¹ Comparable data for 1929 not available.

VITREOUS ENAMELED PRODUCTS, INCLUDING KITCHEN, HOUSEHOLD, AND HOSPITAL UTENSILS

[A preliminary report for this industry was issued December 14, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of vitreous enameled products, including kitchen, household, and hospital utensils, and enameled parts used as materials by other manufacturers in producing finished products. It does not include the manufacture of enameled plumbing fixtures which are classified in the "Enameled-iron sanitary ware and other plumbers' supplies" industry nor of enameled signs which are classified in the "Signs, advertising displays, and advertising novelties" industry. Vitreous enameling is done to a considerable extent on materials owned by others and custom work of this nature is classified in the "Enameling, japanning, and lacquering" industry. This industry is one of a group of four classified in the former "Stamped and pressed metal products; enameling, japanning, and lacquering" industry. The other three

industries are: "Stamped and pressed metal products (except automobile stampings)"; "Automobile stampings"; and "Enameling, japanning, and lacquering." A segregation of the figures for 1937 has been made to obtain figures comparable with those shown for 1939.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939-----	55	10,809	\$11,441,682	\$20,348,180	\$44,239,055	\$23,890,875	3,913
1937 ⁴ -----	48	11,326	11,361,736	19,293,265	41,115,222	21,821,957	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable figures for prior years.

⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Indiana	Ohio	Pennsylvania	Tennessee	Other States ¹
Number of establishments ²	55	6	3	18	8	4	16
Proprietors and firm members.....	2	1					1
Persons reported by manufacturing establishments, total ³	12,480	1,682	541	4,531	1,898	1,054	2,775
Salaried officers of corporations ³	133	14	7	42	21	11	38
Manufacturing:							
Salaried employees ³	1,104	150	44	500	163	46	201
Wage earners (average for the year) ⁴	10,809	1,426	453	3,841	1,672	982	2,436
Distribution.....	394	80	37	132	42	15	88
Construction.....	39	12		15			12
Other.....	1			1			
Salaries and wages, total ⁵	\$15,283,028	\$2,359,409	\$777,353	\$6,165,829	\$1,981,722	\$1,047,777	\$2,950,938
Salaried officers ³	1,046,636	166,969	65,475	379,868	166,977	69,733	197,614
Manufacturing:							
Salaries ³	1,942,413	250,130	109,723	901,806	278,071	83,633	319,050
Wages.....	11,441,682	1,694,989	543,216	4,598,438	1,490,679	819,220	2,295,140
Distribution.....	794,391	228,268	58,939	263,134	45,995	75,191	122,864
Construction.....	57,546	19,053		22,223			16,270
Other.....	360			360			
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	20,348,180	3,905,916	1,046,731	8,277,455	2,369,096	1,470,336	3,278,646
Materials and supplies.....	18,446,541	3,630,791	969,013	7,580,133	2,061,686	1,266,077	2,938,841
Fuel.....	1,054,068	127,803	65,710	343,595	183,690	82,165	251,105
Purchased electric energy.....	702,768	86,432	12,008	314,428	88,266	122,094	79,540
Contract work.....	144,803	60,890		39,299	35,454		9,160
Value of products.....	44,239,055	7,916,406	2,461,869	16,745,892	5,589,796	3,335,560	8,189,532
Value added by manufacture ⁵	23,890,875	4,010,490	1,415,138	8,468,437	3,220,700	1,865,224	4,910,886

¹ California, 2 establishments; Massachusetts, 2; Michigan, 2; New Jersey, 2; New York, 4; West Virginia, 2; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Vitreous Enameled Products, Including Kitchen, Household, and Hospital Utensils Industry, all products, total value.....	\$44,239,055	\$41,115,222
Vitreous-enameled products.....	30,370,623	31,482,265
Miscellaneous products not specified.....	485,707	9,632,957
Other products (not classified in this industry).....	13,382,725	
Vitreous-enameled products, total value.....	34,921,106	38,574,725
Vitreous-enameled products made in this industry.....	30,370,623	31,482,265
Vitreous-enameled products made as secondary products in other industries.....	4,550,483	7,092,460

¹ Value of automobile stamped parts and accessories, finished stamped articles, signs, frit, galvanized stamped ware, and other stamped parts.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$34,921,106	\$38,574,725
Vitreous-enameled products:		
Cooking and other household ware.....	15,806,513	18,754,874
Drainboards and tub covers.....	270,122	197,060
Hospital ware.....	758,486	902,975
Reflectors.....	535,108	557,487
Refrigerator parts.....	2,403,011	14,033,708
Store fronts and other architectural vitreous-enameled parts.....	1,237,202	1,859,858
Stove parts.....	3,372,611	2,405,196
Table tops.....	3,004,108	3,065,258
Washing-machine parts.....	3,670,637	4,327,018
Other vitreous-enameled products.....	3,863,308	3,471,291

¹ Revised.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Tons (2,000 pounds)	Cost
Steel sheets, plates and strip—hot-rolled (except stainless).....	29,460	\$1,939,597
Steel sheets and strip—cold-rolled (except stainless and vitreous-enameled).....	12,581	816,996
Vitreous-enameled steel sheets:		
Quantity reported.....	31,337	2,110,276
Quantity not reported.....		56,602
Stainless-steel sheets and strip.....	875	582,856
Tin plate.....	2,711	300,782
Terneplate.....	1,454	90,669
Black plate.....	28,538	1,938,646
Copper:		
Quantity reported.....	4	1,703
Quantity not reported.....		67
Aluminum:		
Quantity reported.....	7	5,540
Quantity not reported.....		188
Brass and bronze.....	(¹)	102
Zinc.....	1,268	123,546

¹ Quantity not reported.

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	10,809	9,665	9,952	10,762	10,981	10,276	10,567	10,113	11,081	11,315	11,541	11,976	11,483
1937.....	11,326	11,275	11,677	11,924	12,016	12,041	11,844	11,682	11,366	11,535	10,945	10,130	9,475
Illinois.....	1,426	1,246	1,331	1,369	1,465	1,447	1,444	1,444	1,386	1,363	1,439	1,577	1,596
Indiana.....	453	436	430	425	423	415	436	456	469	475	501	494	481
New York.....	365	351	357	363	368	365	364	368	376	375	381	346	366
Ohio.....	3,841	3,645	3,675	4,235	4,237	3,498	3,624	3,370	3,816	4,001	3,809	4,136	4,049
Pennsylvania.....	1,672	1,534	1,380	1,437	1,536	1,548	1,506	1,545	1,802	1,821	2,061	2,035	2,058
Tennessee.....	982	733	846	944	938	957	978	1,007	1,071	1,102	1,176	1,203	823

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	55
Reporting expenditures for plant and equipment.....	42
Value of products:	
Total for the industry.....	\$44,239,055
Reporting expenditures for plant and equipment.....	41,672,744
Expenditures for plant and equipment:	
Total for the industry.....	1,463,313
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	342,059
Expenditures for new machinery and operating equipment.....	1,100,794
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	20,460

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$7,357,365	\$7,380,615
Finished products.....	2,914,036	2,545,933
Materials, supplies, etc.....	4,443,329	4,834,682
End of year, total.....	8,984,427	8,243,036
Finished products.....	2,973,770	2,975,168
Materials, supplies, etc.....	6,010,657	5,267,868
Value of products for the industry, total.....	44,239,055	41,115,222
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	43,874,087	40,964,933
Value for establishments not reporting inventories.....	364,968	150,289

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 ¹

	1939
Number of establishments.....	55
Number of establishments reporting power equipment.....	53
Prime movers, aggregate:	
Number.....	17
Horsepower.....	3,913
Prime movers, steam engines, driving generators—	
Number.....	9
Horsepower.....	2,881
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	100
Prime movers, steam engines, not driving generators—	
Number.....	8
Horsepower.....	1,032
Generators, driven by steam engines, kilowatt rating.....	2,082
Generators, ordinarily idle (included above), kilowatt rating.....	75
Electric motors, total:	
Number.....	5,047
Horsepower.....	30,144
Driven by purchased energy—	
Number.....	4,580
Horsepower.....	24,324
Driven by energy generated in establishments reporting—	
Number.....	487
Horsepower.....	5,820
Electric energy (kilowatt-hours):	
Generated in plant.....	3,525,273
Purchased.....	57,139,599

¹ Comparable data for 1929 not available.

AUTOMOBILE STAMPINGS

[A preliminary report for this industry was issued December 17, 1940]

Description of the industry.—This industry embraces establishments primarily engaged in the production of stamped automobile parts and accessories, unassembled, and is one of a group of four industries classified in the former "Stamped and pressed metal products; enameling, japanning and lacquering" industry. The other three industries are, namely: "Stamped and pressed metal products (except automobile stampings)"; "Vitreous enameled products, including kitchen, household, and hospital utensils"; and "Enameling, japanning, and lacquering." The reports for 1937 have been retabulated to obtain figures for 1937 comparable with those for 1939.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	90	8,597	\$11,970,203	\$21,826,766	\$47,833,155	\$26,006,389	40
1937 ⁴	94	14,994	20,703,783	39,998,156	78,920,906	38,922,750	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable figures for earlier years.

⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Indiana	Massachusetts	Michigan	Ohio	Wisconsin	Other States ¹
Number of establishments ²	90	7	5	4	33	23	5	13
Proprietors and firm members.....	21	4	—	—	11	3	—	3
Persons reported by manufacturing establishments, total ³	10,081	677	584	1,248	3,518	2,640	239	1,176
Salaried officers of corporations ³	156	7	13	11	46	45	9	25
Manufacturing:								
Salaried employees ³	1,086	89	56	132	353	281	27	148
Wage earners (average for the year) ⁴	8,597	561	484	1,059	3,059	2,277	200	958
Distribution.....	205	6	31	46	54	24	3	41
Construction.....	33	14	—	—	3	12	—	4
Other.....	4	—	—	—	3	1	—	—
Salaries and wages, total ³	\$15,921,285	\$917,708	\$957,325	\$1,898,478	\$6,076,881	\$3,894,956	\$412,157	\$1,763,780
Salaried officers ³	1,112,268	43,920	117,792	133,528	310,602	252,798	63,910	189,718
Manufacturing:								
Salaries ³	2,170,984	162,711	116,721	279,547	835,896	541,245	45,497	189,367
Wages.....	11,970,203	644,364	619,542	1,348,418	4,803,348	2,999,921	293,583	1,261,027
Distribution.....	591,013	22,831	103,270	136,985	115,848	85,491	9,167	117,421
Construction.....	72,717	43,882	—	—	7,567	15,021	—	6,247
Other.....	4,100	—	—	—	3,620	480	—	—
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	21,826,766	1,180,880	1,695,890	2,640,262	7,207,460	6,426,086	540,699	2,135,489
Materials and supplies.....	20,631,552	1,106,755	1,655,080	2,564,985	6,707,512	6,179,893	506,836	1,910,491
Fuel.....	232,572	30,293	8,935	22,347	89,424	58,080	4,265	19,228
Purchased electric energy.....	551,122	43,832	31,875	48,741	209,402	157,840	13,727	45,705
Contract work.....	411,520	—	—	4,189	201,122	30,273	15,871	160,065
Value of products.....	47,833,155	2,572,435	3,114,788	6,979,755	16,623,724	12,397,734	1,215,277	4,929,442
Value added by manufacture ³	26,006,389	1,391,555	1,418,898	4,339,493	9,416,264	5,971,648	674,578	2,793,653

¹ California, 1 establishment; Connecticut, 1; Kentucky, 1; Minnesota, 1; Missouri, 1; Nebraska, 1; New York, 4; Pennsylvania, 3.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Automobile Stampings industry, all products, total value.....	\$47,833,155	\$78,920,906
Automobile stampings made in this industry.....	35,919,106	58,206,759
Miscellaneous products not specified.....	2,712,485	20,714,147
Other products (not classified in this industry).....	19,201,564	
Automobile stampings, aggregate value.....	46,440,491	79,261,804
Automobile stampings made in this industry.....	35,919,106	58,206,759
Automobile stampings made as secondary products in other industries.....	10,521,385	21,055,045

¹ Value of light stamped parts, punch and stamping press equipment, and heavy pressed parts.

² Figures for the year 1937 not comparable with those for 1939 because of the fact that automobile stampings made (for sale and for interplant transfer) in the "Motor vehicles, motor-vehicle bodies, parts and accessories" industry were included for 1937 and excluded for 1939 since they were not called for separately on the schedule.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE: 1939 AND 1937

All available production data are shown in table 3.

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	8,597	8,993	8,358	8,375	8,094	7,582	7,495	7,372	7,727	8,860	9,922	10,076	10,312
1937.....	14,994	16,062	15,707	15,225	15,394	16,119	15,752	14,848	14,056	14,792	15,751	14,163	12,055
Illinois.....	561	487	432	409	445	440	480	444	537	720	751	767	859
Indiana.....	434	478	432	523	493	459	456	433	424	458	501	583	558
Massachusetts.....	1,059	1,002	895	1,003	871	827	840	870	952	1,156	1,457	1,441	1,395
Michigan.....	3,059	3,675	3,349	2,952	2,930	2,665	2,453	2,570	2,568	3,150	3,473	3,433	3,489
New York.....	137	128	107	103	104	138	125	120	124	113	153	209	212
Ohio.....	2,277	2,260	2,121	2,405	2,133	2,010	2,001	1,864	2,029	2,357	2,707	2,668	2,719
Pennsylvania.....	643	648	646	581	683	701	773	721	721	515	471	578	671
Wisconsin.....	200	178	194	204	204	199	212	194	189	184	201	217	224

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	90
Reporting expenditures for plant and equipment.....	73
Value of products:	
Total for the industry.....	\$47,833,155
Reporting expenditures for plant and equipment.....	43,928,430
Expenditures for plant and equipment:	
Total for the industry.....	923,298
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	152,281
Expenditures for new machinery and operating equipment.....	655,876
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	115,141

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$4,706,848	\$6,847,238
Finished products.....	1,167,452	1,274,586
Materials, supplies, etc.....	3,539,396	5,572,652
End of year, total.....	6,323,215	7,615,393
Finished products.....	1,317,445	1,624,949
Materials, supplies, etc.....	5,005,770	5,990,444

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Tons (2,000 pounds)	Cost
Steel sheets, plates and strip, hot-rolled (except stainless):		
Quantity reported.....	152,937	\$6,725,086
Quantity not reported.....		81,700
Steel sheets and strip, cold-rolled (except stainless and vitreous enameled):		
Quantity reported.....	95,510	5,850,619
Quantity not reported.....		256,051
Vitreous enameled steel sheets:		
Quantity reported.....	1,312	90,448
Quantity not reported.....		10,000
Stainless-steel sheets and strip:		
Quantity reported.....	646	370,563
Quantity not reported.....		11,630
Tin plate.....	82	5,375
Terneplate.....	1,734	130,296
Black plate.....	102	6,124
Copper:		
Quantity reported.....	697	167,621
Quantity not reported.....		1,989
Aluminum:		
Quantity reported.....	73	40,889
Quantity not reported.....		2,518
Brass and bronze:		
Quantity reported.....	2,218	844,587
Quantity not reported.....		13,866
Zinc.....	4,017	432,187

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937—Con.

	1939	1937
Value of products for the industry, total.....	\$47,833,155	\$78,920,906
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	47,517,702	77,017,625
Value for establishments not reporting inventories.....	315,453	1,903,281

TABLE 9.—PRIME MOVERS, MOTORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	90
Number of establishments reporting power equipment.....	88
Prime movers, steam turbines, not driving generators:	
Number.....	1
Horsepower.....	40
Electric motors driven by purchased energy:	
Number.....	7,208
Horsepower.....	40,638
Electric energy purchased (kilowatt-hours).....	32,499,695

¹ Comparable data for 1929 not available.

STAMPED AND PRESSED METAL PRODUCTS (EXCEPT AUTOMOBILE STAMPINGS)

[A preliminary report for this industry was issued December 30, 1940]

Description of the industry.—This industry embraces establishments engaged primarily in the manufacture of light stamped and heavy pressed metals (other than aluminum products and automobile stampings) and in many instances in the further processing by paint enameling, japanning, and lacquering of same; and establishments engaged in custom stamping. This industry is one of a group of four classified under the former heading "Stamped and pressed metal products; enameling; japanning, and lacquering." A segregation of the statistics for 1937 has been made which is comparable with that for 1939. The other three industries are: "Automobile stampings"; "Vitreous enameled products, including kitchen, household, and hospital utensils"; and "Enameling, japanning, and lacquering." Separate statistics for these industries are shown in other sections of this report. Stamped aluminum ware is a product of the "Aluminum ware, kitchen, hospital, and household (except electrical appliances)" industry, and stamped tinware is a product of the

"Tin cans and other tinware not elsewhere classified" industry.

Many of the stampings are parts used as a material by manufacturers classified elsewhere. Among the principal finished products are bottle and jar caps, galvanized iron pails, and ash cans and garbage cans.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	655	33,112	\$37,535,454	\$89,140,826	\$178,395,076	\$89,254,250	6,375
1937 ⁴	527	31,905	37,788,370	85,200,501	163,862,561	78,662,000	(5)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable data for earlier years.

⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Colorado	Connecticut	Illinois	Indiana	Iowa	Massachusetts	Michigan	Minnesota	Missouri
Number of establishments ¹	655	36	4	32	90	24	6	34	42	9	16
Proprietors and firm members.....	281	31	3	7	37	15	1	9	24	4	6
Persons reported by manufacturing establishments, total ²	39,362	1,189	78	2,607	4,385	1,692	286	1,697	1,431	261	1,168
Salaried officers of corporations ²	876	27	6	49	114	27	8	48	48	13	30
Manufacturing:											
Salaried employees ²	3,539	136	5	176	338	201	31	185	177	39	78
Wage earners (average for the year) ²	33,112	970	58	2,334	3,584	1,318	240	1,397	1,165	204	1,034
Distribution.....	1,708	53	8	46	326	44	6	63	34	3	26
Construction.....	90	1	1	2	18	1	1	4	7		
Other.....	37	2			5	1				2	
Salaries and wages, total ²	\$53,345,731	\$1,730,065	\$146,043	\$3,125,135	\$6,073,112	\$2,009,710	\$333,334	\$2,304,754	\$2,146,030	\$395,340	\$1,496,065
Salaried officers ²	5,109,281	136,051	48,996	287,091	740,264	106,525	33,785	258,989	290,114	79,216	231,525
Manufacturing:											
Salaries ²	6,569,051	258,635	8,281	314,596	674,855	368,088	42,425	361,522	361,461	71,162	137,921
Wages.....	37,535,454	1,206,412	71,526	2,444,246	3,876,305	1,462,840	241,965	1,608,267	1,390,978	239,250	1,071,549
Distribution.....	3,942,358	121,861	14,774	74,961	746,978	66,832	13,629	132,246	93,090	4,600	55,070
Construction.....	139,133	2,000	2,466	4,241	29,141	1,161	1,500	3,730	10,387		
Other.....	50,454	5,106			5,569	4,264				1,152	
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	89,140,826	3,752,056	85,783	3,794,312	9,545,518	2,849,668	759,009	2,228,614	2,700,545	243,205	2,125,502
Materials and supplies.....	85,222,454	3,677,226	76,384	3,608,722	9,239,140	2,670,795	733,818	2,057,722	2,568,280	204,901	2,071,845
Fuel.....	1,183,722	12,923	1,950	48,109	89,934	47,953	5,814	52,718	35,845	3,513	24,085
Purchased electric energy.....	1,798,306	35,928	2,300	79,540	178,098	70,134	10,455	62,018	80,249	7,783	29,572
Contract work.....	936,344	25,979	5,149	57,941	38,346	60,786	8,922	56,156	16,171	27,008	
Value of products.....	178,395,076	7,013,073	274,942	8,492,826	21,134,287	5,613,807	1,419,653	5,644,939	6,118,748	858,692	4,819,817
Value added by manufacture ⁴	89,254,250	3,261,017	189,159	4,698,514	11,588,769	2,764,139	660,644	3,416,325	3,418,203	615,487	2,694,315

See footnotes at end of table.

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CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

	New Jersey	New York	Ohio	Pennsylvania	Rhode Island	Texas	Washington	West Virginia	Wisconsin	Other States ¹
Number of establishments ¹	39	130	82	41	9	7	3	5	20	26
Proprietors and firm members.....	15	52	24	19	4	7	2	—	4	17
Persons reported by manufacturing establishments, total ²	2,407	6,316	7,017	2,204	628	141	18	1,104	1,443	3,391
Salaried officers of corporations ³	42	198	119	59	9	7	1	8	35	28
Manufacturing:										
Salaried employees ³	243	630	579	270	93	13	4	52	134	155
Wage earners (average for the year) ³	2,071	5,192	6,081	1,752	524	112	13	1,040	1,152	2,872
Distribution.....	51	288	233	112	—	9	—	4	110	292
Construction.....	—	2	3	10	—	—	—	—	—	40
Other.....	—	6	2	1	2	—	—	—	12	4
Salaries and wages, total ²	\$2,691,788	\$8,501,547	\$10,192,576	\$3,135,505	\$609,843	\$155,854	\$28,348	\$1,372,894	\$2,109,171	\$4,728,617
Salaried officers ³	245,819	992,648	772,036	252,810	42,501	17,835	3,000	25,350	182,339	361,727
Manufacturing:										
Salaries ³	469,223	1,120,050	1,117,769	460,248	109,593	18,800	6,417	87,396	253,861	326,748
Wages.....	1,884,144	5,843,485	7,752,894	2,083,885	455,657	101,543	18,331	1,253,866	1,458,625	3,069,656
Distribution.....	92,002	537,069	543,905	321,275	—	17,676	—	6,282	198,376	906,172
Construction.....	—	3,017	4,645	15,924	—	—	—	—	—	60,921
Other.....	—	5,278	1,327	1,363	2,032	—	—	—	20,970	3,393
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	3,363,571	12,596,513	22,328,035	5,057,036	541,949	407,357	35,369	3,453,615	3,142,445	9,830,724
Materials and supplies.....	3,213,587	12,138,928	21,530,074	4,893,648	518,227	399,516	33,765	3,365,144	3,007,674	9,213,058
Fuel.....	51,567	226,845	212,129	74,930	8,266	586	319	21,167	61,524	203,545
Purchased electric energy.....	79,426	255,537	345,023	87,059	13,250	3,547	780	67,304	68,917	321,386
Contract work.....	18,991	275,203	240,809	1,399	2,206	3,708	505	—	4,330	92,735
Value of products.....	7,252,984	27,306,905	37,174,603	10,357,740	1,508,978	753,537	73,238	5,590,495	6,263,569	20,722,243
Value added by manufacture ⁴	3,889,413	14,410,392	14,846,568	5,300,704	967,029	346,180	37,869	2,136,880	3,121,124	10,891,519

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

Alabama, 2 establishments; Delaware, 4; Florida, 1; Kansas, 1; Kentucky, 2; Maine, 1; Maryland, 10; Mississippi, 1; North Carolina, 1; Oregon, 1; South Carolina, 1; Virginia, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Stamped and Pressed Metal Products (Except Automobile Stampings) industry, all products, total value.....	\$178,395,076	\$163,862,561
Stamped and pressed metal products.....	134,893,251	128,652,496
Receipts for custom stampings.....	913,940	951,492
Miscellaneous products not specified.....	16,116,950	—
Receipts for contract work (not including custom stampings).....	764,408	—
Scrap and salable refuse.....	1,179,952	34,258,573
Merchandise sold in the same condition in which it was purchased.....	1,170,807	—
Other products (not classified in this industry).....	23,356,268	—
Stamped and pressed metal products, total value, and receipts for custom stamping.....	180,457,470	186,190,268
Stamped and pressed metal products reported by establishments in this industry.....	134,893,251	128,652,496
Stamped and pressed metal products reported as secondary products by establishments in other industries.....	44,049,810	56,124,420
Receipts for custom stamping reported by establishments in this industry.....	913,940	951,492
Receipts for custom stamping reported by establishments in other industries.....	600,469	461,860

¹ Value of automobile parts and accessories, finished tinware, plastics, punch and stamping press equipment, aluminum ware, and steel barrels.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$180,457,470	\$186,190,268
Finished articles, other than vitreous-enameled:		
Bottle and jar caps (metal).....	22,113,677	21,530,807
Beverage crowns.....	13,587,489	14,286,338
Screw caps.....	12,171,115	9,812,283
Other metal caps.....	—	—
Pails, ash and garbage cans, etc.—		
Galvanized iron.....	12,330,726	12,988,885
Iron and steel, japanned and paint-enameled.....	1,274,855	3,055,250
Other finished articles.....		
Nonferrous metal, other than aluminum.....	3,589,259	1,910,467
Galvanized iron.....	2,316,553	1,969,965
Stainless steel.....	4,071,885	2,779,641
Steel, plain and japanned or paint-enameled.....	21,082,482	11,904,535

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Parts (not vitreous-enameled), other than automotive parts and accessories:		
Light stamped.....	\$66,057,782	\$83,087,931
Heavy pressed.....	14,904,817	16,148,288
Perforated metals.....	5,382,421	5,302,526
Receipts for custom stamping.....	1,514,409	1,413,352

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Tons (2,000 pounds)	Cost
Steel sheets, plates and strip, hot-rolled (except stainless):		
Quantity reported.....	329,753	\$16,219,143
Quantity not reported.....	—	324,441
Steel sheets and strip, cold-rolled (except stainless and vitreous-enameled):		
Quantity reported.....	131,840	7,769,780
Quantity not reported.....	—	155,521
Vitreous-enameled steel sheets:		
Quantity reported.....	9,883	811,043
Quantity not reported.....	—	6,009
Stainless-steel sheets and strip:		
Quantity reported.....	3,156	1,812,160
Quantity not reported.....	—	67,612
Tin plate:		
Quantity reported.....	122,827	11,813,293
Quantity not reported.....	—	120,077
Terneplate:		
Quantity reported.....	3,612	286,645
Quantity not reported.....	—	89,861
Black plate:		
Quantity reported.....	29,025	1,853,827
Quantity not reported.....	—	26,674
Copper:		
Quantity reported.....	1,985	811,994
Quantity not reported.....	—	319,658
Aluminum:		
Quantity reported.....	2,584	1,460,900
Quantity not reported.....	—	45,095
Brass and bronze:		
Quantity reported.....	8,173	3,242,098
Quantity not reported.....	—	240,346
Zinc:		
Quantity reported.....	9,425	1,125,172
Quantity not reported.....	—	90,509

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	33,112	30,368	30,991	31,419	31,315	31,404	32,012	32,451	33,702	34,757	36,236	36,777	35,918
1937.....	31,905	31,509	31,822	32,788	33,477	33,472	32,749	32,248	32,215	32,711	31,856	30,422	27,588
California.....	970	876	885	903	979	935	949	931	982	965	1,059	1,095	1,082
Colorado.....	58	57	57	57	58	58	60	58	57	56	57	58	62
Connecticut.....	2,334	2,195	2,293	2,331	2,272	2,321	2,215	2,186	2,225	2,368	2,527	2,559	2,510
Delaware.....	133	123	118	119	117	114	113	132	149	147	147	153	159
Illinois.....	3,584	3,247	3,328	3,356	3,352	3,377	3,540	3,633	3,649	3,709	3,800	4,109	3,909
Indiana.....	1,318	1,167	1,274	1,344	1,273	1,239	1,261	1,280	1,204	1,313	1,453	1,482	1,528
Iowa.....	240	239	258	246	232	219	209	217	240	261	263	268	226
Maryland.....	2,586	2,267	2,343	2,361	2,405	2,442	2,691	2,785	2,873	2,728	2,683	2,735	2,717
Massachusetts.....	1,397	1,317	1,284	1,237	1,193	1,207	1,301	1,334	1,399	1,541	1,621	1,725	1,608
Michigan.....	1,165	1,125	1,118	1,106	1,044	1,055	1,033	959	1,156	1,256	1,367	1,388	1,369
Minnesota.....	204	168	171	174	191	189	192	192	212	233	245	246	232
Missouri.....	1,034	908	930	982	1,038	1,048	1,075	1,065	1,025	1,068	1,095	1,082	1,092
New Jersey.....	2,071	2,095	2,120	1,982	2,010	1,989	1,948	1,972	2,038	2,158	2,230	2,231	2,077
New York.....	5,192	4,820	4,833	4,865	4,885	4,891	4,979	5,033	5,243	5,314	5,713	5,918	5,807
Ohio.....	6,081	5,561	5,005	5,792	5,842	5,796	5,745	5,914	6,311	6,592	6,596	6,616	6,597
Pennsylvania.....	1,752	1,546	1,552	1,634	1,670	1,715	1,790	1,780	1,779	1,819	1,804	1,920	1,911
Rhode Island.....	524	491	527	572	445	449	455	488	621	614	643	530	454
Texas.....	112	91	92	107	111	102	107	109	108	116	151	143	111
Washington.....	13	12	12	12	11	15	15	15	13	13	16	14	13
West Virginia.....	1,040	880	874	910	1,013	1,015	1,071	1,092	1,038	1,131	1,241	1,094	1,121
Wisconsin.....	1,152	1,048	1,168	1,177	1,027	1,085	1,119	1,117	1,214	1,198	1,258	1,244	1,171

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	655
Reporting expenditures for plant and equipment.....	454
Value of products:	
Total for the industry.....	\$178,395,076
Reporting expenditures for plant and equipment.....	167,143,054
Expenditures for plant and equipment:	
Total for the industry.....	6,178,834
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	1,012,034
Expenditures for new machinery and operating equipment.....	4,417,350
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	749,450

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$28,367,366	\$25,412,603
Finished products.....	11,524,007	9,247,241
Materials, supplies, etc.....	16,843,359	16,165,362
End of year, total.....	33,194,687	31,326,112
Finished products.....	12,148,438	11,681,043
Materials, supplies, etc.....	21,046,249	19,645,069
Value of products for the industry, total.....	178,395,076	163,862,561
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	176,632,728	157,413,643
Value for establishments not reporting inventories.....	1,762,348	6,448,918

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	655
Number of establishments reporting power equipment.....	650
Prime movers, aggregate:	
Number.....	39
Horsepower.....	6,375
Prime movers, driving generators, total—	
Number.....	27
Horsepower.....	5,798

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators—Continued.	
Steam engines—	
Number.....	18
Horsepower.....	4,075
Diesel and semi-Diesel engines—	
Number.....	5
Horsepower.....	320
Other internal-combustion engines ² —	
Number.....	3
Horsepower.....	773
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	30
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	1,743
Prime movers not driving generators, total—	
Number.....	12
Horsepower.....	577
Steam engines—	
Number.....	3
Horsepower.....	265
Diesel and semi-Diesel engines—	
Number.....	2
Horsepower.....	90
Other internal-combustion engines ² —	
Number.....	6
Horsepower.....	207
Hydroturbines and water wheels—	
Number.....	1
Horsepower.....	15
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	45
Generators, kilowatt rating, total.....	4,058
Generators, driven by—	
Steam engines, kilowatt rating.....	3,322
Diesel and semi-Diesel engines, kilowatt rating.....	215
Other internal-combustion engines, ² kilowatt rating.....	501
Hydroturbines and water wheels, kilowatt rating.....	20
Generators, ordinarily idle (included above), kilowatt rating.....	1,188
Electric motors, total:	
Number.....	23,428
Horsepower.....	131,139
Driven by purchased energy—	
Number.....	22,117
Horsepower.....	128,621
Driven by energy generated in establishments reporting—	
Number.....	1,311
Horsepower.....	2,518
Electric energy (kilowatt-hours):	
Generated in plant.....	4,304,630
Sold.....	580,350
Purchased.....	119,384,604

¹ Comparable data for 1929 not available.² Gas, gasoline, etc.

ENAMELING, JAPANNING, AND LACQUERING

[A preliminary report for this industry was issued December 14, 1940]

Description of the industry.—This industry embraces establishments engaged primarily in vitreous and paint enameling, japanning, and lacquering of metal, on materials owned by others. Establishments engaged in producing vitreous enameled products other than on a custom basis are classified in the "Vitreous enameled products, including kitchen, household, and hospital utensils" industry.

This industry is one of a group of four classified in the former "Stamped and pressed metal products; enameling, japanning, and lacquering" industry. The other three industries are: "Vitreous enameled products, including kitchen, household, and hospital utensils," "Stamped and pressed metal products (except automobile stampings)," and "Automobile stampings." Establishments classified in the last two named industries in many cases

apply paint enamel, japan, and lacquer to their products. A retabulation of the figures for 1937 has been made to obtain figures comparable with those shown for 1939.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 and 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horse-power of prime movers
1939.....	80	1,821	\$2,062,275	\$2,455,622	\$6,935,646	\$4,480,024	100
1937 ⁴	74	2,868	3,287,092	3,656,147	10,140,321	6,484,174	(*)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable data for prior years.

⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Missouri	New Jersey	New York	Ohio	Pennsylvania	Rhode Island	Other States ¹
Number of establishments ²	80	9	19	3	5	11	9	4	4	16
Proprietors and firm members.....	66	9	13	3	7	8	6	4	6	10
Persons reported by manufacturing establishments, total ³	2,123	75	535	14	14	137	119	49	42	1,139
Salaried officers of corporations ⁴	60	—	20	—	—	11	7	3	—	19
Manufacturing:										
Salaried employees ⁵	150	9	32	—	—	16	9	1	4	79
Wage earners (average for the year) ⁴	1,821	66	459	14	14	107	100	45	38	979
Distribution.....	69	—	23	—	—	3	3	—	—	40
Construction.....	6	—	1	—	—	—	—	—	—	5
Other.....	17	—	—	—	—	—	—	—	—	17
Salaries and wages, total ⁴	\$2,808,448	\$102,576	\$637,664	\$12,880	\$14,960	\$176,269	\$140,508	\$51,756	\$31,122	\$1,640,713
Salaried officers ⁵	295,638	—	104,353	—	—	44,460	24,500	7,500	—	114,825
Manufacturing:										
Salaries ⁵	293,539	18,794	58,189	—	—	27,086	14,802	1,990	4,214	168,464
Wages.....	2,062,275	83,782	432,894	12,880	14,960	101,026	98,046	42,266	26,908	1,249,513
Distribution.....	123,162	—	40,359	—	—	3,697	3,160	—	—	75,946
Construction.....	9,806	—	1,869	—	—	—	—	—	—	7,937
Other.....	24,028	—	—	—	—	—	—	—	—	24,028
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	2,455,622	105,355	579,869	13,947	18,158	104,033	104,522	47,560	10,709	1,462,469
Materials and supplies.....	2,016,480	97,060	468,643	12,828	16,082	81,120	84,060	36,347	16,465	1,203,875
Fuel.....	239,082	5,119	67,967	636	1,494	10,627	11,648	7,583	1,172	132,806
Purchased electric energy.....	162,939	3,146	37,756	483	582	12,286	6,579	3,630	2,072	96,405
Contract work.....	37,121	30	5,473	—	—	—	2,235	—	—	29,333
Value of products.....	6,935,646	291,552	1,601,089	40,417	58,290	397,409	305,954	125,834	81,757	4,033,344
Value added by manufacture ⁵	4,480,024	186,197	1,021,220	26,470	40,132	293,376	201,432	78,274	62,048	2,570,875

¹ Connecticut, 1 establishment; Indiana, 2; Kentucky, 1; Massachusetts, 2; Michigan, 6; Minnesota, 2; Washington, 1; West Virginia, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939 ¹	1937
Enameling, Japanning, and Lacquering industry, all products, total value.....	\$6,935,646	\$10,140,321
Receipts for custom enameling, japanning, and lacquering done in this industry.....	5,158,414	7,602,839
Miscellaneous products not specified.....	89,839	2,537,482
Other products (not classified in this industry).....	1,687,393	
Enameling, japanning, and lacquering, aggregate receipts.....	7,036,759	9,022,286
Enameling, japanning, and lacquering done in this industry.....	5,158,414	7,602,839
Enameling, japanning, and lacquering done in other industries.....	1,878,345	1,419,447

¹ Value of frit, custom stamping, vitreous enameled products, and signs.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No figures for this table; only custom work reported for this industry.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	1,821	1,576	1,720	1,864	1,924	1,832	1,784	1,788	1,782	1,877	1,905	1,881	1,921
1937.....	2,868	2,925	2,931	3,126	3,165	3,099	3,057	2,818	2,867	2,773	2,660	2,570	2,422
California.....	66	63	64	65	66	69	69	65	65	66	65	67	68
Illinois.....	459	376	388	423	424	458	471	493	495	483	482	510	500
Michigan.....	305	242	261	265	279	277	268	261	290	374	376	385	382
Missouri.....	14	11	15	17	15	16	17	16	15	13	13	10	10
New Jersey.....	14	14	14	15	15	15	15	16	14	15	14	14	13
New York.....	107	98	98	106	111	104	102	100	113	111	114	116	109
Ohio.....	100	91	97	106	120	100	98	88	91	103	100	98	109
Pennsylvania.....	45	41	41	39	38	40	39	39	44	52	58	54	52
Rhode Island.....	38	38	37	36	39	41	39	41	40	38	35	33	35

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	80
Reporting expenditures for plant and equipment.....	39
Value of products:	
Total for the industry.....	\$6,935,646
Reporting expenditures for plant and equipment.....	5,593,191
Expenditures for plant and equipment:	
Total for the industry.....	106,955
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	27,628
Expenditures for new machinery and operating equipment.....	61,883
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	17,444

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$405,892	\$558,701
Finished products.....	91,402	112,635
Materials, supplies, etc.....	314,490	446,066
End of year, total.....	492,405	541,630
Finished products.....	117,966	99,990
Materials, supplies, etc.....	374,439	441,640
Value of products for the industry, total.....	6,935,646	10,140,321
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	6,728,072	9,188,883
Value for establishments not reporting inventories.....	207,574	951,438

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	80
Number of establishments reporting power equipment.....	79
Prime movers, aggregate:	
Number.....	2
Horsepower.....	100
Prime movers, steam engines, driving generators—	
Number.....	1
Horsepower.....	40
Prime movers not driving generators, total—	
Number.....	1
Horsepower.....	60
Diesel and semi-Diesel engines—	
Number.....	1
Horsepower.....	60
Generators, steam engines, kilowatt rating.....	20
Electric motors, total:	
Number.....	1,152
Horsepower.....	4,794
Driven by purchased energy—	
Number.....	1,147
Horsepower.....	4,787
Driven by energy generated in establishments reporting—	
Number.....	5
Horsepower.....	7
Electric energy (kilowatt-hours):	
Generated in plant.....	3,120
Purchased.....	8,744,262

¹ Comparable data for 1929 not available.

GALVANIZING AND OTHER COATING—CARRIED ON IN PLANTS NOT OPERATED IN CONNECTION WITH ROLLING MILLS

[A preliminary report for this industry was issued November 26, 1940]

Description of the industry.—This industry embraces establishments engaged primarily in coating sheets and formed products with zinc (galvanizing or sherardizing), aluminum, lead, etc., and in retinning. Retinning is included with these processes as an operation distinct from the manufacture of tin plate and terneplate for which separate production statistics are compiled. Most of the work in this industry is done on materials owned by others. (For total production of galvanized plates, sheets, strip, and wire, and tin and terneplate, see reports for the Steel-Works and Rolling-Mills industry and the Wire Products industries.)

The phrase "carried on in plants not operated in connection with rolling mills" refers in some cases to plants having no connection with rolling mills and in others to plants under the same ownership as rolling mills but operated as independent units and usually at different locations.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	83	1,212	\$1,342,647	\$2,512,630	\$6,195,640	\$3,683,010	55
1937.....	64	1,119	1,376,140	2,527,040	5,994,070	3,467,030	(⁵)
1935.....	65	1,201	1,269,391	2,132,962	5,194,309	3,061,347	(⁵)
1933.....	54	761	661,297	1,163,523	2,690,783	1,527,260	(⁵)
1931.....	60	1,011	1,170,056	1,668,996	4,090,302	2,391,306	(⁵)
1929.....	65	1,125	1,563,716	3,939,417	7,066,541	3,727,124	50
1927.....	59	953	1,448,940	3,722,411	6,950,855	3,228,444	132
1925.....	54	804	1,127,862	2,891,944	5,933,158	3,041,214	206
1923.....	51	877	1,183,464	3,363,069	6,327,338	2,964,269	(⁵)
1921.....	51	685	843,620	2,161,406	4,017,820	1,856,414	(⁵)
1919.....	52	1,665	2,247,953	10,532,288	14,475,682	3,943,394	605
1914.....	48	1,580	922,264	6,292,804	8,480,109	2,187,305	2,007
1909.....	46	1,447	786,796	5,718,099	7,338,330	1,619,631	(⁵)
1904.....	36	1,256	620,012	4,744,466	6,418,850	1,674,384	(⁵)
1899.....	28	535	229,406	1,677,584	2,470,703	703,119	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Maryland	Massachusetts	Missouri	New Jersey	New York	Ohio	Pennsylvania	Other States ¹
Number of establishments ²	83	13	11	4	7	5	3	10	5	7	18
Proprietors and firm members.....	50	12	3	5	3	6	-----	7	3	1	10
Persons reported by manufacturing establishments, total ³	1,459	115	233	76	91	35	74	187	50	409	189
Salaried officers of corporations ⁴	77	8	12	3	7	1	3	13	6	13	11
Manufacturing:											
Salaried employees ⁵	120	9	19	8	11	3	5	15	6	25	19
Wage earners (average for the year) ⁶	1,212	93	197	65	67	31	66	133	38	359	158
Distribution.....	47	5	5	-----	6	-----	-----	20	-----	10	1
Construction.....	3	-----	-----	-----	-----	-----	-----	1	-----	2	-----
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Salaries and wages, total ⁷	\$2,179,776	\$206,755	\$292,137	\$65,913	\$145,953	\$35,399	\$94,454	\$261,044	\$100,391	\$720,112	\$257,618
Salaried officers ⁸	509,403	39,335	47,580	9,075	30,805	2,080	20,110	48,380	42,192	219,880	49,957
Manufacturing:											
Salaries ⁹	243,456	16,549	31,178	5,737	21,015	2,548	7,462	23,959	11,540	83,745	39,723
Wages.....	1,342,647	138,877	208,852	51,101	84,442	30,771	66,873	160,165	46,659	389,069	165,838
Distribution.....	78,610	11,994	4,527	-----	9,691	-----	-----	26,715	-----	23,583	2,100
Construction.....	5,660	-----	-----	-----	-----	-----	-----	1,825	-----	3,835	-----
Other.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	2,512,630	216,197	364,721	201,100	126,106	39,259	105,864	477,940	66,666	678,786	235,991
Materials and supplies.....	2,273,541	196,212	311,184	192,815	106,404	36,783	95,626	449,049	54,830	633,740	197,398
Fuel.....	161,067	15,753	29,287	7,264	9,375	1,796	9,609	19,273	8,658	33,494	26,558
Purchased electric energy.....	67,430	2,869	18,854	1,482	8,524	680	629	9,600	3,178	11,552	10,062
Contract work.....	10,592	1,363	5,396	39	1,803	-----	-----	18	-----	-----	1,973
Value of products.....	6,195,640	565,299	849,507	334,967	330,659	98,828	306,205	856,607	219,966	1,975,753	657,849
Value added by manufacture ¹⁰	3,683,010	349,102	484,786	133,867	204,553	59,569	200,341	378,667	153,300	1,296,967	421,858

¹ Colorado, 1 establishment; Connecticut, 1; Indiana, 1; Kansas, 1; Louisiana, 1; Michigan, 1; Minnesota, 2; Nebraska, 1; Oklahoma, 1; Rhode Island, 1; Texas, 2; Washington, 2; Wisconsin, 3.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937
There are no statistics for tables 3 and 4 for this industry. The work of this industry is mostly done on materials owned by others.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	1,212	1,084	1,117	1,120	1,184	1,231	1,259	1,243	1,269	1,258	1,254	1,276	1,244
1937.....	1,119	1,049	1,124	1,085	1,121	1,140	1,170	1,207	1,210	1,181	1,081	1,038	1,023
1929.....	1,125	1,016	1,059	1,139	1,206	1,181	1,201	1,189	1,170	1,124	1,154	1,044	1,027
California.....	93	75	77	82	99	100	97	101	101	103	98	101	78
Illinois.....	197	152	182	180	185	193	196	207	209	206	211	222	217
Maryland.....	65	57	55	53	75	71	72	64	83	72	64	58	54
Massachusetts.....	67	63	68	65	64	69	69	64	64	66	70	72	74
Missouri.....	31	30	30	30	33	35	39	33	32	31	27	28	27
New Jersey.....	66	63	63	63	63	62	68	66	67	69	66	68	68
New York.....	138	121	120	121	141	136	140	149	150	149	147	145	142
Ohio.....	38	34	36	36	41	39	39	38	40	39	38	38	40
Pennsylvania.....	359	350	339	341	340	358	364	362	359	362	379	375	379
Wisconsin.....	43	22	22	23	23	49	52	49	54	57	50	62	58

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	83
Reporting expenditures for plant and equipment.....	40
Value of products:	
Total for the industry.....	\$6,195,640
Reporting expenditures for plant and equipment.....	4,442,342
Expenditures for plant and equipment:	
Total for the industry.....	164,823
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	55,613
Expenditures for new machinery and operating equipment.....	104,410
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	4,800

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$486,493	\$357,931
Finished products.....	62,057	49,821
Materials, supplies, etc.....	424,436	308,110
End of year, total.....	589,970	465,820
Finished products.....	63,221	45,311
Materials, supplies, etc.....	526,749	420,509

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937—Con.

	1939	1937
Value of products for the industry, total.....	\$6,195,640	\$5,994,070
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	6,186,640	5,770,214
Value for establishments not reporting inventories.....	9,000	223,856

TABLE 8.—PRIME MOVERS, MOTORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	83	65
Number of establishments reporting power equipment.....	83	55
Prime movers, aggregate:		
Number.....	2	1
Horsepower.....	55	50
Prime movers not driving generators, total—		
Number.....	2	—
Horsepower.....	55	—
Steam engines—		
Number.....	1	—
Horsepower.....	50	—
Steam turbines—		
Number.....	1	—
Horsepower.....	5	—
Internal-combustion engines, ¹ other than Diesel and semi-Diesel—		
Number.....	—	1
Horsepower.....	—	50
Electric motors, driven by purchased energy:		
Number.....	611	314
Horsepower.....	2,703	2,216
Electric energy purchased (kilowatt-hours).....	2,029,476	2,454,886

¹ Gas, gasoline, etc.

FABRICATED STRUCTURAL STEEL AND ORNAMENTAL METAL WORK, MADE IN PLANTS NOT OPERATED IN CONNECTION WITH ROLLING MILLS

[A preliminary report for this industry was issued November 16, 1940]

Description of the industry.—The establishments classified in this industry are engaged primarily in fabricating metal for structural and ornamental purposes. Some of the chief products are structural steel for buildings and bridges, ornamental iron and steel work, balconies, bank fixtures, fabricated bars and rods for reinforcing concrete, elevator enclosures, iron fences, fire escapes, and gratings. In some cases the fabrication is of a minor nature, consisting of merely cutting, punching, and shaping steel incidental to the principal business of construction work or the buying and selling of steel and other metals, but the census figures relate only to the shop fabrication departments of such establishments.

The phrase "made in plants not operated in connection with rolling mills" refers to production in plants operated entirely independently of rolling mills, although in some cases under the same ownership.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	1,138	35,477	\$47,549,506	\$172,437,165	\$234,669,659	\$112,232,494	29,498
1937.....	1,132	38,814	53,898,058	169,673,176	292,755,904	123,082,728	(⁵)
1935.....	1,111	27,243	28,225,011	94,087,784	160,762,487	66,674,703	(⁵)
1933.....	962	21,377	18,624,134	63,169,061	107,612,309	44,443,248	(⁵)
1931.....	1,302	37,510	47,874,684	131,648,905	238,033,284	106,384,379	(⁵)
1929.....	1,482	54,947	87,785,606	244,696,254	477,036,827	232,340,573	36,358
1927.....	1,284	52,392	84,578,048	243,446,072	440,376,360	196,930,288	45,803
1925.....	1,136	48,341	77,411,499	237,652,611	420,997,579	183,344,968	43,813
1923.....	1,056	51,591	80,832,875	225,487,217	406,117,279	180,630,062	(⁵)
1921.....	1,021	32,897	47,455,082	151,010,906	250,085,446	99,074,540	(⁵)
1919.....	1,146	43,962	59,920,132	168,800,715	294,962,419	126,161,704	50,768
1914.....	1,235	47,167	33,428,913	87,621,537	159,377,857	71,756,320	54,809
1909.....	1,089	40,234	26,422,372	76,659,426	133,241,379	56,581,953	(⁵)
1904.....	775	34,276	19,760,210	47,452,069	90,944,697	43,492,628	(⁵)
1899.....	697	24,903	13,588,779	38,053,135	66,927,305	28,874,170	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Alabama	California	Colorado	Connecticut	District of Columbia	Florida	Georgia	Illinois	Indiana	Iowa	Kansas
Number of establishments ¹	1,138	16	102	11	18	13	8	8	90	22	13	9
Proprietors and firm members.....	560	6	79	3	9	10	6	12	28	11	7	6
Persons reported by manufacturing establishments, total ²	44,800	1,230	3,033	302	293	387	128	229	2,701	1,788	587	589
Salaried officers of corporations ³	1,436	17	77	13	24	10	11	7	132	32	13	17
Manufacturing:												
Salaried employees ²	5,165	153	436	33	50	41	23	18	353	253	101	63
Wage earners (average for the year) ³	35,477	981	2,308	225	198	247	90	163	2,000	1,437	393	404
Distribution.....	2,601	75	205	28	21	79	4	38	207	60	79	105
Construction.....	88	2	4	3					8	6	1	
Other.....	33	2	3			10		3	1			
Salaries and wages, total ²	\$69,426,368	\$1,443,460	\$4,930,801	\$447,312	\$471,532	\$610,887	\$183,895	\$319,988	\$4,381,424	\$2,916,680	\$961,444	\$840,915
Salaried officers ²	6,335,877	121,491	309,562	30,911	111,766	41,260	42,851	34,499	583,107	132,388	62,930	77,817
Manufacturing:												
Salaries ²	10,168,515	261,117	829,980	64,356	53,989	82,815	42,581	28,341	721,279	516,324	192,030	104,125
Wages.....	47,549,506	917,985	3,366,174	286,485	257,382	348,626	86,738	179,523	2,671,582	2,141,833	506,529	490,033
Distribution.....	5,205,236	134,857	413,905	55,558	48,395	107,242	11,725	74,469	390,456	125,035	197,555	168,940
Construction.....	113,751	5,010	7,280	1,002					14,000	1,100	2,400	
Other.....	53,483	3,000	3,900			30,944		3,156	1,000			
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	172,437,165	4,485,011	11,081,897	1,594,055	873,434	1,060,615	383,890	582,439	9,730,867	6,077,154	2,531,164	2,327,324
Materials and supplies.....	167,783,521	4,419,485	10,738,475	1,562,225	850,957	1,048,290	374,666	557,873	9,441,417	5,919,848	2,494,049	2,268,939
Fuel.....	1,029,668	8,727	30,233	6,814	11,348	2,736	1,934	1,941	58,401	58,784	8,360	8,012
Purchased electric energy.....	1,952,758	56,799	121,342	13,192	9,718	9,519	4,091	7,424	132,612	91,772	28,755	25,599
Contract work.....	1,671,278		191,847	11,824	1,411	70	3,199	15,201	98,437	6,750		24,774
Value of products.....	284,669,659	7,854,210	18,606,747	2,517,699	1,630,404	1,845,035	668,922	1,106,516	17,022,603	10,211,637	4,206,219	3,517,640
Value added by manufacture ⁴	112,232,494	3,369,199	7,524,850	923,644	756,970	784,420	285,032	524,077	7,291,736	4,134,483	1,675,055	1,190,316

See footnotes at end of table.

FABRICATED STRUCTURAL STEEL

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TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

	Ken- tucky	Louis- iana	Mary- land	Massa- chusetts	Michi- gan	Minne- sota	Missouri	Ne- braska	New Jersey	New York	North Carolina	Ohio
Number of establishments ¹	8	9	13	50	43	20	33	7	52	211	9	80
Proprietors and firm members.....	3	8	7	28	29	7	10	1	11	112	4	30
Persons reported by manufacturing establishments, total ²	403	286	603	954	2,007	895	999	529	1,539	4,279	404	4,296
Salaried officers of corporations ²	13	8	10	47	46	36	67	13	81	275	19	101
Manufacturing:												
Salaried employees ²	44	18	131	120	300	80	133	55	149	425	72	425
Wage earners (average for the year) ³	302	221	426	728	1,509	703	733	444	1,277	3,297	290	3,636
Distribution.....	44	37	35	57	133	74	62	17	31	248	23	131
Construction.....		2			1	2	4		1	33		
Other.....			1	2	18					1		3
Salaries and wages, total ²	\$564,214	\$332,102	\$945,265	\$1,374,479	\$3,577,574	\$1,360,035	\$1,641,352	\$684,756	\$2,368,035	\$7,276,781	\$618,949	\$6,869,519
Salaried officers ²	55,574	42,345	64,403	209,830	220,879	156,666	388,895	70,079	281,606	1,060,058	115,393	518,078
Manufacturing:												
Salaries ²	70,718	19,775	297,287	219,220	737,034	162,721	266,819	72,589	313,968	811,434	137,049	832,446
Wages.....	348,061	205,082	501,908	825,986	2,244,577	886,672	845,018	476,872	1,696,928	4,884,893	305,699	5,243,560
Distribution.....	89,861	62,400	81,147	116,677	355,999	150,410	133,620	65,216	74,233	479,326	60,808	273,658
Construction.....		2,500			18,085	3,566	7,000		1,300	40,570		
Other.....			520	2,766	1,000				500			1,777
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	858,890	576,175	2,519,111	2,395,201	8,030,487	2,061,589	3,037,589	1,764,762	6,706,725	12,929,060	1,908,151	27,955,733
Materials and supplies.....	832,971	550,903	2,487,519	2,275,265	7,839,613	1,958,154	2,938,779	1,705,481	6,553,149	12,265,287	1,837,911	27,494,605
Fuel.....	7,068	5,472	5,218	12,654	38,903	40,072	27,026	14,536	47,466	83,988	2,931	81,468
Purchased electric energy.....	14,386	19,800	22,999	41,514	113,539	24,635	41,822	42,745	49,749	157,621	11,283	213,602
Contract work.....	4,405		3,375	65,768	38,432	38,728	29,962	2,000	56,362	422,164	56,026	166,058
Value of products.....	2,073,262	1,134,162	4,299,300	4,640,151	14,108,150	4,069,593	6,029,927	2,810,365	10,770,139	24,216,315	3,013,329	39,617,823
Value added by manufacture ⁴	1,214,372	557,987	1,780,189	2,244,950	6,077,663	2,008,004	2,992,338	1,045,003	4,063,413	11,287,255	1,105,178	11,662,090

	Oklahoma	Oregon	Pennsyl- vania	Tennessee	Texas	Utah	Virginia	Wash- ington	West Vir- ginia	Wiscon- sin	Other States ⁵
Number of establishments ¹	12	10	122	19	44	4	18	11	6	26	21
Proprietors and firm members.....	2	6	59	7	30		7	10	1	3	8
Persons reported by manufacturing establishments, total ²	865	181	9,316	847	1,676	127	934	56	453	1,151	734
Salaried officers of corporations ²	26	8	137	26	41	8	21	5	5	59	31
Manufacturing:											
Salaried employees ²	80	17	903	89	111	21	142	5	38	187	96
Wage earners (average for the year) ³	629	136	8,005	711	1,370	89	742	43	398	803	540
Distribution.....	129	20	266	21	154	9	26	3	12	102	66
Construction.....			3								1
Other.....	1		2				3				
Salaries and wages, total ²	\$1,167,634	\$262,342	\$14,571,757	\$1,002,433	\$2,115,014	\$190,601	\$1,206,258	\$79,914	\$654,671	\$1,910,380	\$1,143,965
Salaried officers ²	156,613	20,801	579,046	138,526	148,098	37,191	74,946	11,989	31,200	244,449	151,630
Manufacturing:											
Salaries ²	147,416	26,728	1,804,240	179,829	213,414	37,606	294,721	4,103	80,822	368,779	172,800
Wages.....	580,443	184,687	11,704,509	646,375	1,499,688	94,018	783,066	58,218	502,814	1,051,208	726,334
Distribution.....	282,162	30,126	480,012	37,703	253,814	21,786	50,555	5,604	39,835	241,006	91,141
Construction.....			3,000							4,988	2,000
Other.....	1,000		950				2,970				
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	3,345,968	468,449	37,423,769	2,218,579	5,775,250	640,647	2,816,390	122,358	2,247,777	3,230,500	2,675,854
Materials and supplies.....	3,307,125	451,189	36,308,900	2,176,020	5,665,186	628,857	2,746,428	112,194	2,226,597	3,130,164	2,615,000
Fuel.....	10,139	4,153	321,750	4,007	19,196	2,069	32,092	858	3,982	50,507	14,758
Purchased electric energy.....	28,704	12,162	415,196	37,790	66,758	6,721	36,544	2,588	17,198	44,631	29,948
Contract work.....		940	377,923	1,062	24,110	3,000	1,326	6,718		3,198	16,148
Value of products.....	5,745,194	875,446	58,251,060	3,980,758	9,982,810	962,713	4,931,364	269,447	3,235,874	5,956,530	4,508,315
Value added by manufacture ⁴	2,399,226	406,997	20,827,291	1,761,879	4,207,560	322,066	2,114,974	147,089	988,097	2,726,030	1,832,461

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Arizona, 1 establishment; Arkansas, 2; Delaware, 2; Maine, 2; Mississippi, 2; Montana, 2; New Hampshire, 1; North Dakota, 1; Rhode Island, 4; South Carolina, 2; South Dakota, 1; Vermont, 1.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Fabricated Structural Steel and Ornamental Metal Work Made in Plants Not Operated in Connection with Rolling Mills Industry, all products, total value.....	\$284,669,659	\$292,755,904
Fabricated structural and ornamental metal work made in this industry.....	234,672,013	253,852,644
Miscellaneous products not specified.....	6,035,278	
Scrap and salable refuse.....	654,180	
Receipts for contract and repair work.....	2,786,132	38,903,260
Merchandise sold without processing.....	11,186,534	
Other products (not classified in this industry).....	129,335,522	
Fabricated structural and ornamental metal work, aggregate value.....	252,258,490	275,175,334
Fabricated structural and ornamental metal work made in this industry.....	234,672,013	253,852,644
Fabricated structural and ornamental metal work made as secondary products in other industries, total.....	17,586,486	21,322,690
Produced in other industries within the Iron and Steel and Their Products, Except Machinery group.....	8,987,024	(?)
Produced in industries outside the Iron and Steel and Their Products, Except Machinery group.....	8,599,462	

¹ Plate steel cut, punched, or shaped for assembly on job; miscellaneous plate steel products; wire mesh for reinforcing concrete, metal doors, window sash and frames.² No data.

CENSUS OF MANUFACTURES: 1939

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939				1937
	Produced in the industry	Produced in other industries within the Iron and Steel and Their Products, Except Machinery group	Produced in industries outside the Iron and Steel and Their Products, Except Machinery group	Aggregate	
Aggregate value.....	\$234,672,013	\$8,987,024	\$8,599,462	\$252,258,499	\$275,175,334
Structural steel, fabricated, total.....	\$169,767,092	\$6,082,092	\$5,030,024	\$181,779,208	\$203,630,797
Quantity reported—					
Tons (2,000 pounds).....	1,732,589	39,309	12,584	1,784,482	1,850,424
Value.....	\$154,140,759	\$4,369,711	\$1,122,213	\$159,632,683	\$170,282,409
Quantity not reported, value.....	\$15,626,333	\$1,712,381	\$4,807,811	\$22,140,525	\$33,348,388
For buildings:					
Quantity reported—					
Tons (2,000 pounds).....	1,047,227	8,005	3,016	1,058,248	1,165,674
Value.....	\$91,160,254	\$899,634	\$275,661	\$92,335,549	\$105,063,076
Quantity not reported, value.....	\$7,859,359	\$1,027,985	\$1,101,846	\$10,079,190	\$16,391,362
For bridges:					
Quantity reported—					
Tons (2,000 pounds).....	387,424	498	188	388,110	391,228
Value.....	\$35,000,482	\$53,965	\$14,940	\$35,069,387	\$34,713,769
Quantity not reported, value.....	\$596,549	\$118,241	\$1,129,099	\$1,843,889	\$1,140,720
Other than for buildings and bridges:					
Quantity reported—					
Tons (2,000 pounds).....	240,202	30,166	15	270,383	237,430
Value.....	\$22,404,438	\$3,361,532	\$1,050	\$25,767,020	\$25,436,279
Quantity not reported, value.....	\$3,848,035	\$189,258	\$1,712,182	\$5,749,475	\$9,672,692
Structural steel, use not reported:					
Quantity reported—					
Tons (2,000 pounds).....	57,736	640	9,365	67,741	56,092
Value.....	\$5,575,585	\$54,580	\$830,562	\$6,460,727	\$5,069,285
Quantity not reported, value.....	\$3,322,390	\$376,897	\$774,684	\$4,473,971	\$6,143,614
Stairs and staircases:					
Quantity reported—					
Tons (2,000 pounds).....	20,064	47	—	20,111	24,497
Value.....	\$3,277,576	\$11,680	—	\$3,289,256	\$4,258,630
Quantity not reported, value.....	\$1,995,450	\$23,764	\$21,050	\$2,040,264	\$2,138,377
Steel grating treads and flooring:					
Quantity reported—					
Tons (2,000 pounds).....	11,098	4,772	—	15,870	10,663
Value.....	\$1,616,655	\$915,514	—	\$2,532,169	\$1,505,625
Quantity not reported, value.....	\$333,226	\$166,122	—	\$499,348	\$2,107,058
Fire escapes:					
Quantity reported—					
Tons (2,000 pounds).....	7,456	37	—	7,493	8,435
Value.....	\$1,071,440	\$7,336	—	\$1,078,776	\$1,198,727
Quantity not reported, value.....	\$732,530	\$35,110	\$4,981	\$772,621	\$810,428
Bars and rods for reinforcing concrete, fabricated:					
Quantity reported—					
Tons (2,000 pounds).....	—	—	—	329,533	247,000
Value.....	—	—	—	\$17,426,686	\$14,320,039
Quantity not reported, value.....	—	—	—	\$1,719,094	\$1,517,173
Expanded metal lath:	\$28,337,154	\$39,528	\$1,885,329		
Quantity reported—					
Tons (2,000 pounds).....	—	—	—	89,208	77,670
Value.....	—	—	—	\$8,774,447	\$7,920,726
Quantity not reported, value.....	—	—	—	\$2,341,784	\$3,892,109
Iron fences and gates, other than wire:					
Quantity reported—					
Tons (2,000 pounds).....	8,888	2,534	—	11,422	—
Value.....	\$847,081	\$484,812	—	\$1,331,893	—
Quantity not reported, value.....	\$466,807	\$36,425	—	\$503,232	\$1,678,546
Grilles and railings:					
Quantity reported—					
Tons (2,000 pounds).....	9,623	224	—	9,847	10,102
Value.....	\$1,895,143	\$44,766	—	\$1,939,909	\$2,614,455
Quantity not reported, value.....	\$1,031,592	\$272,072	\$398,973	\$1,702,637	\$1,535,474
Ornamental iron and steel:					
Quantity reported—					
Tons (2,000 pounds).....	39,913	195	2	40,110	30,635
Value.....	\$7,317,986	\$48,206	\$1,200	\$7,367,392	\$6,798,303
Quantity not reported, value.....	\$3,503,786	\$165,583	\$13,527	\$3,682,896	\$6,053,543
Ornamental bronze work:					
Quantity reported—					
Tons (2,000 pounds).....	1,329	—	—	1,329	—
Value.....	\$2,366,323	—	—	\$2,366,323	—
Quantity not reported, value.....	\$933,518	\$333,865	\$214,587	\$1,481,970	\$4,570,168
Other nonferrous ornamental work for buildings, value.....	\$1,421,596	\$139,272	\$129,791	\$1,690,659	\$1,997,379
Ornamental work not reported by kind, value.....	\$1,507,798	—	—	\$1,507,798	—
Structural and ornamental work not reported by class or kind, value.....	\$6,249,260	\$180,877	—	\$6,430,137	\$6,632,777

¹ Figures combined to avoid disclosing, exactly or approximately, data reported by individual establishments.

FABRICATED STRUCTURAL STEEL

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TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Tons (2,000 pounds)	Cost
Iron and steel bars (except reinforcing bars) and small shapes, not including alloy and stainless:		
Quantity reported.....	182, 586	\$8, 929, 709
Quantity not reported.....		1, 480, 909
Reinforcing bars (all types):		
Quantity reported.....	252, 782	9, 866, 017
Quantity not reported.....		462, 393
Iron and steel structural shapes not assembled or fabricated:		
Quantity reported.....	1, 036, 562	50, 164, 369
Quantity not reported.....		2, 667, 960
Iron and steel sheets and strip:		
Quantity reported.....	166, 859	9, 366, 252
Quantity not reported.....		389, 655

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939—Continued

KIND	Tons (2,000 pounds)	Cost
Iron and steel plates:		
Quantity reported.....	255, 167	\$11, 927, 196
Quantity not reported.....		901, 095
Piling and bearing piles:		
Quantity reported.....	2, 871	188, 542
Quantity not reported.....		22, 105
Stainless steel:		
Quantity reported.....	233	104, 974
Quantity not reported.....		25, 832
Alloy steel, except stainless:		
Quantity reported.....	1, 788	204, 917
Quantity not reported.....		35, 368

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	35, 477	31, 298	32, 025	32, 702	33, 020	34, 338	35, 498	36, 246	37, 562	38, 333	38, 313	38, 421	37, 967
1937.....	38, 814	35, 880	35, 773	37, 045	38, 261	38, 920	40, 047	40, 754	41, 636	42, 075	40, 854	38, 592	35, 928
1929.....	54, 947	51, 052	51, 861	52, 323	53, 674	54, 738	55, 055	56, 600	57, 929	57, 764	57, 371	56, 076	54, 026
Alabama.....	981	992	931	901	867	800	869	995	1, 046	1, 121	1, 063	1, 062	1, 120
California.....	2, 308	2, 131	2, 101	2, 211	2, 225	2, 320	2, 293	2, 271	2, 350	2, 398	2, 489	2, 507	2, 418
Colorado.....	225	195	216	228	266	252	266	240	190	207	206	217	218
Connecticut.....	198	182	167	188	186	201	192	215	201	197	216	217	210
District of Columbia.....	247	213	228	232	243	258	245	253	256	266	250	260	257
Florida.....	90	84	78	82	78	83	82	92	96	92	93	113	103
Georgia.....	163	157	154	142	149	148	141	148	157	177	201	193	194
Illinois.....	2, 000	1, 735	1, 765	1, 765	1, 781	1, 790	2, 000	2, 061	2, 131	2, 271	2, 203	2, 262	2, 230
Indiana.....	1, 437	1, 137	1, 137	1, 187	1, 291	1, 474	1, 474	1, 529	1, 596	1, 656	1, 637	1, 637	1, 489
Iowa.....	393	369	368	378	374	383	402	419	410	393	406	410	402
Kansas.....	404	375	376	382	365	393	422	426	433	429	426	410	407
Kentucky.....	302	256	271	282	272	278	286	204	292	298	322	307	392
Louisiana.....	221	232	210	201	200	198	223	220	243	255	260	172	243
Maryland.....	426	297	310	304	315	498	481	491	479	425	507	516	493
Massachusetts.....	728	473	439	476	519	742	765	767	815	940	907	958	941
Michigan.....	1, 509	1, 390	1, 267	1, 287	1, 317	1, 278	1, 464	1, 600	1, 944	1, 888	1, 619	1, 553	1, 503
Minnesota.....	703	600	650	624	639	648	695	736	774	791	757	778	743
Missouri.....	733	649	636	687	696	709	755	835	831	796	748	732	723
Nebraska.....	444	385	403	415	450	462	466	479	480	472	462	441	424
New Jersey.....	1, 277	1, 101	1, 243	1, 261	1, 251	1, 290	1, 304	1, 313	1, 344	1, 338	1, 311	1, 292	1, 279
New York.....	3, 297	2, 994	3, 099	3, 195	3, 320	3, 320	3, 388	3, 283	3, 388	3, 394	3, 371	3, 376	3, 431
North Carolina.....	290	269	293	301	286	281	297	288	288	284	295	295	300
Ohio.....	3, 636	3, 316	3, 369	3, 402	3, 431	3, 492	3, 617	3, 707	3, 746	3, 791	3, 943	3, 616	3, 896
Oklahoma.....	629	528	579	554	583	667	671	689	700	694	637	632	616
Oregon.....	136	99	114	116	134	143	149	142	141	162	147	156	130
Pennsylvania.....	8, 005	6, 635	7, 083	7, 362	7, 300	7, 503	7, 815	7, 986	8, 490	8, 750	9, 011	9, 087	9, 034
Rhode Island.....	76	84	78	65	77	77	76	77	74	77	77	73	78
Tennessee.....	711	718	714	708	695	696	688	685	709	762	768	681	704
Texas.....	1, 370	1, 336	1, 385	1, 394	1, 416	1, 383	1, 366	1, 408	1, 363	1, 369	1, 342	1, 337	1, 344
Utah.....	89	78	74	73	86	93	100	87	102	98	97	93	92
Virginia.....	742	683	700	698	642	844	842	794	764	753	742	743	703
Washington.....	43	39	42	48	50	51	49	41	36	41	39	38	37
West Virginia.....	398	335	331	358	360	386	397	415	429	441	440	462	425
Wisconsin.....	803	815	769	779	697	720	752	774	778	829	869	924	927

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	1,138
Reporting expenditures for plant and equipment.....	617
Value of products:	
Total for the industry.....	\$284,669,659
Reporting expenditures for plant and equipment.....	224,269,441
Expenditures for plant and equipment:	
Total for the industry.....	4,314,288
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	1,618,096
Expenditures for new machinery and operating equipment.....	2,427,104
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	269,028

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories.		
Beginning of year, total.....	\$43,258,467	\$44,427,377
Finished products.....	12,385,373	12,678,495
Materials, supplies, etc.....	30,873,094	31,748,882
End of year, total.....	53,616,908	52,019,903
Finished products.....	14,856,069	13,436,878
Materials, supplies, etc.....	38,760,839	38,583,025
Value of products for the industry, total.....	284,669,659	292,755,904
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	282,960,273	284,818,409
Value for establishments not reporting inventories.....	1,709,386	7,937,495

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	1,138	1,482
Number of establishments reporting power equipment.....	1,130	1,456
Prime movers, aggregate:		
Number.....	168	329
Horsepower.....	29,498	36,358
Prime movers, driving generators, total—		
Number.....	75	1329
Horsepower.....	19,966	136,358
Steam engines—		
Number.....	42	1229
Horsepower.....	10,191	124,474
Steam turbines—		
Number.....	2	13
Horsepower.....	2,250	13,750

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Diesel and semi-Diesel engines—		
Number.....	8	
Horsepower.....	1,595	102
Other internal-combustion engines ² —		
Number.....	23	17,919
Horsepower.....	5,930	
Hydroturbines and water wheels—		
Number.....		15
Horsepower.....		1215
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	1,603	
Prime movers not driving generators, total—		
Number.....	93	
Horsepower.....	9,532	
Steam engines—		
Number.....	29	
Horsepower.....	5,255	
Steam turbines—		
Number.....		(3)
Horsepower.....		
Diesel and semi-Diesel engines—		
Number.....	6	
Horsepower.....	530	
Other internal-combustion engines ² —		
Number.....	58	
Horsepower.....	3,747	
Hydroturbines and water wheels—		
Number.....		
Horsepower.....		
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	840	
Generators, kilowatt rating, total.....	13,664	10,055
Generators, driven by—		
Steam engines, kilowatt rating.....	7,113	
Steam turbines, kilowatt rating.....	1,500	
Diesel and semi-Diesel engines, kilowatt rating.....	1,138	
Other internal-combustion engines, ² kilowatt rating.....	3,913	(3)
Hydroturbines and water wheels, kilowatt rating.....		
Generators, ordinarily idle (included above), kilowatt rating.....	1,155	(4)
Electric motors, total:		
Number.....	29,718	26,788
Horsepower.....	290,538	269,779
Driven by purchased energy—		
Number.....	26,105	23,334
Horsepower.....	245,107	229,817
Driven by energy generated in establishments reporting—		
Number.....	3,613	3,454
Horsepower.....	45,431	39,962
Electric energy (kilowatt-hours):		
Generated in plant.....	8,924,401	(4)
Sold.....	1,106,944	(3)
Purchased.....	107,140,348	133,332,803

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

DOORS, WINDOW SASH, FRAMES, MOLDING, AND TRIM (MADE OF METAL)

[A preliminary report for this industry was issued December 20, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of ferrous and nonferrous solid metal, hollow metal, and metal-covered doors; door frames, window sash and frames; store fronts, partitions, molding, and trim.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939	205	7,740	\$10,531,328	\$19,037,479	\$48,219,102	\$29,181,623	2,155
1937	154	8,408	11,878,834	20,062,849	49,914,773	29,861,924	(⁵)
1935	134	4,533	5,093,031	10,283,684	22,739,929	12,456,245	(⁵)
1933	125	3,572	3,123,156	5,953,312	13,376,591	7,423,279	(⁵)
1931	139	6,816	8,897,727	14,572,103	35,608,399	21,036,296	(⁵)
1929	148	9,557	17,065,422	30,178,161	72,160,388	41,982,227	1,797
1927	117	8,050	15,564,458	25,602,238	65,279,973	39,677,735	1,650
1925	92	6,791	12,899,071	21,627,746	50,078,034	28,450,288	1,442
1923	37	2,429	4,332,767	5,604,210	15,367,111	9,762,901	(⁵)
1921	45	1,782	2,880,909	4,289,274	12,466,701	8,177,427	(⁵)
1919	57	2,077	2,729,774	4,577,934	10,877,001	6,299,067	1,680
1914	43	1,985	1,537,688	1,995,885	5,183,602	3,187,717	2,228
1909	29	1,601	874,340	1,282,905	3,005,685	1,722,780	(⁵)
1904	24	699	407,390	601,754	1,477,235	875,481	(⁵)
1899	13	117	85,683	115,718	319,629	203,911	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Indiana	Massachusetts	Missouri	New York	Ohio	Other States ¹
Number of establishments ¹	205	33	20	7	7	5	92	10	31
Proprietors and firm members	73	20	5		3	1	34	1	9
Persons reported by manufacturing establishments, total ²	10,428	639	940	565	145	328	3,406	1,148	3,259
Salaried officers of corporations ³	332	25	36	17	9	12	149	23	61
Manufacturing:									
Salaried employees ³	1,130	62	58	97	10	17	414	142	330
Wage earners (average for the year) ⁴	7,740	462	724	424	109	256	2,560	803	2,404
Distribution	1,172	86	121	24	17	43	281	177	423
Construction	52	2	1	3			2	3	41
Other	2	2							
Salaries and wages, total ⁵	\$16,504,731	\$1,036,154	\$1,498,615	\$948,718	\$227,874	\$471,941	\$5,394,634	\$1,651,666	\$5,275,129
Salaried officers ³	1,825,085	108,963	241,377	88,333	33,360	64,587	666,732	182,000	439,733
Manufacturing:									
Salaries ³	1,996,792	126,562	103,146	217,638	17,770	42,748	681,944	254,890	552,094
Wages	10,531,328	656,120	930,722	544,962	156,108	290,070	3,605,201	974,798	3,373,347
Distribution	2,109,536	140,353	218,870	93,625	20,636	74,536	437,637	234,858	889,021
Construction	40,834	3,000	4,500	4,160			3,120	5,120	20,934
Other	1,156	1,156							
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	19,037,479	1,343,153	2,499,062	1,033,787	194,460	483,881	5,988,260	1,864,229	5,630,647
Materials and supplies	17,964,421	1,297,558	2,325,268	994,169	180,094	405,702	5,571,864	1,755,591	5,434,175
Fuel	187,359	3,983	16,726	16,245	1,988	1,429	52,419	24,818	69,761
Purchased electric energy	347,351	18,018	38,062	23,373	6,913	7,971	107,276	28,336	117,402
Contract work	538,348	23,594	119,006		5,465	68,779	256,701	55,484	9,319
Value of products	48,219,102	3,192,851	5,778,158	2,529,994	551,628	1,129,257	14,703,504	5,264,193	15,069,517
Value added by manufacture ⁶	29,181,623	1,849,698	3,279,096	1,496,207	357,168	645,376	8,715,244	3,399,904	9,438,870

¹ Colorado, 1 establishment; Connecticut, 1; Iowa, 2; Kentucky, 1; Louisiana, 1; Michigan, 7; Minnesota, 2; New Jersey, 2; Oregon, 1; Pennsylvania, 4; Tennessee 1; Texas, 2; Virginia, 2; Washington, 2; Wisconsin, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Doors, Window Sash, Frames, Molding, and Trim (Made of Metal) industry, all products, total value..	\$48,219,102	\$49,914,773
Doors, window sash, frames, molding, and trim made in this industry.....	42,331,135	42,801,275
Miscellaneous products, not specified.....	129,673	
Scrap and salable refuse.....	71,495	
Receipts for contract and repair work.....	470,095	7,113,498
Merchandise sold without processing.....	388,647	
Other products (not classified in this industry).....	14,528,057	
Doors, window sash, frames, molding, and trim (made of metal), total value.....	57,004,950	53,576,462
Doors, window sash, frames, molding, and trim made in this industry.....	42,331,135	42,801,275
Doors, window sash, frames, molding, and trim made as secondary products in other industries.....	14,673,815	10,775,187

¹ Value of structural steel fabricated, plate work, ornamental iron, steel and bronze work, grilles and railings, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$57,004,950	\$53,576,462
Solid-metal:		
Doors—		
Iron and steel—		
Number reported—		
Number.....	28,418	27,908
Value.....	\$2,152,022	\$2,577,875
Number not reported, value.....	\$889,253	\$712,044
Nonferrous-metal, value.....	\$567,164	\$382,689
Window sash and frames—		
Iron and steel—		
Number reported—		
Number.....	1,159,176	1,611,472
Value.....	\$10,187,205	\$17,419,226
Number not reported, value.....	\$7,694,459	\$2,431,704
Nonferrous-metal, value.....	\$936,079	\$864,513
Door frames—		
Number reported—		
Number.....	102,249	49,967
Value.....	\$478,512	\$265,453
Number not reported, value.....	\$304,530	\$315,351
Partitions, value.....	\$1,943,199	\$1,944,655
Hollow-metal:		
Doors—		
Iron and steel—		
Number reported—		
Number.....	83,195	66,655
Value.....	\$2,476,940	\$2,028,973
Number not reported, value.....	\$1,216,870	\$1,593,034
Nonferrous-metal, value.....	\$414,779	\$732,226
Window sash and frames, iron, steel, and nonferrous, value.....	\$3,142,627	\$2,637,004
Door frames—		
Number reported—		
Number.....	499,602	234,630
Value.....	\$2,622,839	\$1,864,205
Number not reported, value.....	\$757,288	\$378,931
Partitions, value.....	\$1,194,524	\$262,180

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937—Continued

PRODUCT	1939	1937
Metal-covered:		
Doors—		
Iron and steel—		
Number reported—		
Number.....	104,460	81,855
Value.....	\$1,613,481	\$1,891,017
Number not reported, value.....	\$1,546,703	\$1,963,969
Nonferrous-metal, value.....	\$334,702	\$221,888
Window sash and frames, iron, steel, and nonferrous, value.....	(?)	\$194,316
Door frames—		
Number reported—		
Number.....	30,820	25,431
Value.....	\$234,461	\$210,004
Number not reported, value.....	\$205,489	\$234,468
Store fronts, solid, hollow, and metal-covered, value.....	\$3,876,693	\$3,462,124
Molding and trim:		
Solid-metal, value.....	\$2,375,469	
Hollow-metal, value.....	\$2,821,560	
Metal-covered, value.....	\$1,508,628	\$6,792,306
Not distributed by kind, value.....	\$433,955	
Doors, window sash, etc., not distributed by kind, value.....	\$5,575,509	\$2,190,307

¹ Not comparable with figures for 1939, since some establishments included hollow-metal partitions under other items for 1937.

² Figure for "Window sash and frames, iron and steel," etc., included in figure for "Doors, window sash, etc., not distributed by kind."

³ Includes value of items against which footnote 2 appears.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Tons (2,000 pounds)	Cost
Iron and steel bars (except reinforcing bars) and small shapes, not including alloy and stainless:		
Quantity reported.....	64,531	\$3,873,458
Quantity not reported.....		23,292
Reinforcing bars (all types):		
Quantity reported.....	124	4,047
Quantity not reported.....		2,170
Iron and steel structural shapes not assembled or fabricated:		
Quantity reported.....	5,396	270,900
Quantity not reported.....		1,119
Iron and steel sheets and strip:		
Quantity reported.....	46,724	3,122,445
Quantity not reported.....		325,219
Iron and steel plates:		
Quantity reported.....	3,145	180,395
Quantity not reported.....		5,633
Stainless steel:		
Quantity reported.....	696	510,533
Quantity not reported.....		21,489
Alloy steel except stainless:		
Quantity reported.....	283	39,768
Quantity not reported.....		3,386

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	7,740	6,740	6,863	7,098	7,292	7,508	7,803	8,018	8,283	8,381	8,171	8,211	8,511
1937.....	8,408	8,245	8,322	8,646	8,513	8,637	8,736	8,678	8,524	8,723	8,608	7,895	7,362
1929.....	9,557	9,366	9,458	9,464	9,456	9,492	9,623	9,664	9,836	9,830	9,829	9,426	9,243
California.....	462	403	402	404	445	458	468	461	474	479	492	523	532
Illinois.....	724	638	639	650	668	702	709	771	785	797	780	772	772
Indiana.....	424	344	353	378	390	388	433	465	464	469	479	465	455
Massachusetts.....	109	89	94	94	90	97	109	113	126	127	134	117	114
Michigan.....	1,232	1,158	1,162	1,188	1,175	1,168	1,180	1,224	1,283	1,325	1,262	1,299	1,364
Missouri.....	256	215	214	219	228	239	239	248	280	286	309	306	284
New York.....	2,560	2,232	2,275	2,418	2,548	2,615	2,698	2,715	2,725	2,688	2,569	2,572	2,664
Ohio.....	803	683	716	738	752	785	797	812	866	889	874	848	877
Pennsylvania.....	348	313	318	312	329	324	346	352	372	373	377	370	394

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	205
Reporting expenditures for plant and equipment.....	115
Value of products:	
Total for the industry.....	\$48,219,102
Reporting expenditures for plant and equipment.....	39,218,792
Expenditures for plant and equipment:	
Total for the industry.....	982,467
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	311,452
Expenditures for new machinery and operating equipment.....	558,084
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	112,931

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$6,738,072	\$6,993,102
Finished products.....	1,796,915	2,464,418
Materials, supplies, etc.....	4,941,157	4,528,684
End of year, total.....	8,123,296	8,746,270
Finished products.....	2,036,720	2,751,514
Materials, supplies, etc.....	6,086,576	5,994,756
Value of products for the industry, total.....	48,219,102	49,914,773
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	48,084,942	48,892,792
Value for establishments not reporting inventories.....	134,160	1,021,981

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	205	148
Number of establishments reporting power equipment.....	202	147
Prime movers, aggregate:		
Number.....	12	14
Horsepower.....	2,155	1,797
Prime movers, driving generators, total—		
Number.....	9	114
Horsepower.....	1,795	1,797

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Steam engines—		
Number.....	4	17
Horsepower.....	638	1,830
Steam turbines—		
Number.....	2	
Horsepower.....	337	
Diesel and semi-Diesel engines—		
Number.....		
Horsepower.....		13
Other internal-combustion engines—		
Number.....		167
Horsepower.....		
Hydroturbines and water wheels—		
Number.....	3	14
Horsepower.....	820	1,900
Prime movers not driving generators, total—		
Number.....	3	
Horsepower.....	360	
Steam engines—		
Number.....	3	(*)
Horsepower.....	360	
Generators, kilowatt rating, total.....	1,285	765
Generators, driven by—		
Steam engines, kilowatt rating.....	440	
Steam turbines, kilowatt rating.....	225	
Diesel and semi-Diesel engines, kilowatt rating.....		
Other internal-combustion engines, ² kilowatt rating.....		(*)
Hydroturbines and water wheels, kilowatt rating.....	620	
Electric motors, total:		
Number.....	5,957	3,307
Horsepower.....	30,131	24,637
Driven by purchased energy—		
Number.....	5,660	3,152
Horsepower.....	28,470	23,230
Driven by energy generated in establishments reporting—		
Number.....	297	155
Horsepower.....	1,661	1,407
Electric energy (kilowatt-hours):		
Generated in plant.....	326,080	(*)
Sold.....		(*)
Purchased.....	15,682,394	16,963,375

* Includes data for prime movers not driving generators.

* Gas, gasoline, etc.

* Not called for on schedule.

* Data not available.

BOLTS, NUTS, WASHERS, AND RIVETS—MADE IN PLANTS NOT OPERATED IN CONNECTION WITH ROLLING MILLS

[A preliminary report for this industry was issued November 28, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of bolts, nuts, rivets, lock washers, plate washers, turnbuckles, toggle bolts, etc. These commodities are also produced to a considerable extent in departments of steel works and rolling mills. It does not cover the pro-

duction of machine screws which are classified in the "Screw-machine products and wood screws" industry. No detailed production statistics are given in this report, but the total production of bolts, nuts, etc., in all industries in which they are made is shown in the report for the "Steel works and rolling mills" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939.....	155	14,331	\$18,332,950	\$38,708,570	\$84,117,969	\$45,409,399	16,492
1937.....	138	16,840	22,088,126	44,342,158	98,079,243	53,737,085	(⁵)
1935.....	137	12,506	13,375,325	29,299,801	57,420,029	28,120,228	(⁵)
1933.....	103	8,456	7,155,009	15,350,425	32,873,719	17,523,294	(⁵)
1931.....	116	10,518	10,176,837	16,872,487	39,483,131	22,610,644	(⁵)
1929.....	117	16,175	22,115,532	44,211,785	102,392,099	58,180,314	17,223
1927.....	115	13,614	17,324,418	38,301,814	75,876,170	37,574,356	14,779
1925.....	127	13,907	17,942,305	38,506,711	75,925,784	37,419,073	(⁵)
1923.....	126	15,902	20,207,049	41,873,677	84,431,047	42,557,370	(⁵)
1921.....	125	10,148	10,269,344	18,547,629	35,773,454	17,225,825	(⁵)
1919.....	144	17,967	20,973,834	44,277,117	89,743,882	45,466,765	17,402
1914.....	102	10,658	5,960,824	12,912,649	23,403,405	10,490,756	15,234
1909.....	108	11,345	5,793,243	12,804,335	24,484,907	11,680,572	17,768
1904.....	88	8,090	3,642,268	7,807,239	14,687,108	6,879,869	12,859
1899.....	72	7,660	2,991,857	8,071,071	13,978,382	5,907,311	8,822

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Indiana	Massachusetts	Michigan	New Jersey	Ohio	Pennsylvania	Rhode Island	Wisconsin	Other States ¹
Number of establishments ²	155	8	26	6	14	16	8	34	16	4	3	20
Proprietors and firm members.....	30	4	3	—	2	1	—	8	5	—	—	7
Persons reported by manufacturing establishments, total ³	17,107	146	2,024	538	1,342	1,065	778	5,788	2,739	499	319	1,870
Salaried officers of corporations ⁴	257	9	55	2	23	28	15	41	27	11	6	40
Manufacturing:												
Salaried employees ⁵	1,780	20	209	28	112	97	167	502	284	54	52	255
Wage earners (average for the year) ⁶	14,331	108	1,676	505	1,113	904	549	5,028	2,312	418	236	1,453
Distribution.....	718	8	84	—	92	36	43	214	116	16	17	92
Construction.....	16	1	—	3	2	—	4	3	—	—	3	—
Other.....	5	—	—	—	—	—	—	—	—	—	—	—
Salaries and wages, total ⁷	\$25,475,667	\$174,289	\$3,033,282	\$800,455	\$1,709,060	\$1,954,007	\$1,246,429	\$8,661,302	\$3,902,844	\$672,342	\$514,460	\$2,807,197
Salaried officers ⁸	1,904,392	39,570	380,213	14,400	146,740	291,823	125,367	385,821	160,832	37,191	48,754	273,681
Manufacturing:												
Salaries ⁹	3,656,244	27,295	451,470	65,520	202,087	229,292	309,571	1,041,970	529,404	123,543	102,448	573,644
Wages.....	18,332,950	95,616	2,041,134	714,087	1,162,896	1,332,226	688,038	6,782,007	2,951,439	460,977	329,996	1,775,634
Distribution.....	1,543,581	11,308	160,465	—	194,493	100,660	110,588	446,369	201,169	50,631	23,054	184,838
Construction.....	81,748	500	—	6,448	3,344	—	12,865	5,135	—	—	3,456	—
Other.....	6,752	—	—	—	—	—	—	—	—	—	6,752	—
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	38,708,570	200,191	4,595,147	1,873,966	1,425,402	3,449,021	1,616,119	11,936,190	6,992,675	749,199	873,409	4,997,251
Materials, supplies, and containers.....	36,214,766	186,731	4,293,173	1,762,791	1,315,014	3,137,944	1,537,607	11,146,677	6,655,867	681,958	818,308	4,678,666
Fuel.....	930,202	2,665	90,609	39,516	46,449	41,877	34,651	310,496	212,118	21,022	9,159	121,640
Purchased electric energy.....	937,773	5,595	104,461	46,242	63,371	112,588	39,082	330,775	114,873	22,660	15,807	82,319
Contract work.....	625,829	5,200	106,904	25,417	568	156,612	4,779	148,242	9,817	23,559	30,135	114,656
Value of products.....	84,117,969	484,528	11,111,561	3,399,032	3,997,049	6,537,612	4,638,534	26,625,254	14,057,499	1,968,019	1,946,137	9,352,744
Value added by manufacture ¹⁰	45,409,399	284,337	6,516,414	1,525,066	2,571,647	3,088,591	3,022,415	14,689,064	7,064,824	1,218,820	1,072,728	4,355,493

¹ Alabama, 2 establishments; Connecticut, 5; Maryland, 1; Minnesota, 3; Missouri, 1; New York, 4; Oregon, 1; Texas, 1; Washington, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

Detailed production statistics for bolts, nuts, rivets, washers, etc., covering the production in all industries in which they are made, is shown in the report for the "Steel works and rolling mills" industry; therefore, no figures are given for the above tables.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity (Tons— 2,000 pounds)	Cost	Quantity not reported, cost
Iron and steel rods and bars (cold-drawn or rolled).....	63,723	\$3,733,152	\$461,524
Iron and steel rods and bars (hot-rolled).....	308,173	14,780,594	225,744
Iron and steel wire, purchased as such.....	72,694	3,992,430	98,829
Iron and steel washer stock (plates, strip or sheet):			
Primes.....	2,713	205,198	11,000
Seconds.....	27,408	593,650	20,000

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	14,331	13,417	13,509	13,557	13,326	13,212	13,307	13,477	14,027	14,669	16,177	16,540	16,758
1937.....	16,840	16,861	17,144	17,539	18,047	18,166	16,521	17,043	17,053	17,023	16,551	15,713	14,420
1929.....	16,175	15,601	16,195	16,464	16,714	16,902	16,909	16,990	16,666	16,228	15,938	15,100	14,332
California.....	108	98	96	100	103	106	104	107	111	116	117	117	120
Connecticut.....	196	191	191	194	192	185	184	192	192	195	200	216	219
Illinois.....	1,676	1,564	1,592	1,593	1,491	1,500	1,525	1,566	1,706	1,787	1,911	1,884	1,963
Indiana.....	505	464	465	458	450	455	456	468	471	496	615	647	618
Massachusetts.....	1,113	1,070	1,069	1,069	1,071	1,079	1,084	1,156	1,091	1,138	1,147	1,200	1,182
Michigan.....	904	898	892	882	857	820	807	829	864	926	1,023	1,042	1,011
Minnesota.....	147	108	113	130	138	136	143	161	177	187	170	159	140
New Jersey.....	549	502	509	522	521	527	566	563	576	550	565	591	595
New York.....	395	376	375	368	335	327	335	311	359	389	468	544	553
Ohio.....	5,028	4,787	4,823	4,799	4,692	4,556	4,516	4,535	4,868	5,080	5,693	5,928	6,054
Pennsylvania.....	2,312	2,104	2,117	2,160	2,190	2,200	2,260	2,252	2,274	2,397	2,695	2,533	2,508
Rhode Island.....	418	383	386	390	391	389	397	400	390	406	473	494	511
Wisconsin.....	236	200	220	228	225	219	216	219	219	236	270	282	296

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	155
Reporting expenditures for plant and equipment.....	117
Value of products:	
Total for the industry.....	\$84,117,969
Reporting expenditures for plant and equipment.....	76,618,463
Expenditures for plant and equipment:	
Total for the industry.....	2,098,176
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	217,669
Expenditures for new machinery and operating equipment.....	1,719,963
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	160,544

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$16,936,576	\$17,476,033
Finished products.....	9,939,538	8,396,249
Materials, supplies, etc.....	6,997,038	9,079,784
End of year, total.....	19,367,860	20,182,978
Finished products.....	9,771,185	10,231,618
Materials, supplies, etc.....	9,596,675	9,951,360
Value of products for the industry, total.....	84,117,969	98,079,243
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	83,948,469	97,212,507
Value for establishments not reporting inventories.....	169,500	866,736

CENSUS OF MANUFACTURES: 1939

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929		1939	1929
Number of establishments.....	155	117	Prime movers—Continued.		
Number of establishments reporting power equipment.....	154	116	Prime movers not driving generators—Continued.		
Prime movers, aggregate:			Diesel and semi-Diesel engines—		
Number.....	33	41	Number.....	4	
Horsepower.....	16,492	17,228	Horsepower.....	965	
Prime movers, driving generators, total—			Other internal-combustion engines ² —		
Number.....	17	¹ 41	Number.....	2	
Horsepower.....	14,272	¹ 17,228	Horsepower.....	75	
Steam engines—			Hydroturbines and water wheels—		
Number.....	11	¹ 28	Number.....	2	
Horsepower.....	4,716	¹ 9,360	Horsepower.....	65	
Steam turbines—			Prime movers not driving generators, ordinarily idle		
Number.....	4	¹ 5	(included above), horsepower.....	425	
Horsepower.....	8,206	¹ 7,373	Generators, kilowatt rating, total.....	9,625	7,546
Diesel and semi-Diesel engines—			Generators, driven by—		
Number.....	2		Steam engines, kilowatt rating.....	2,675	
Horsepower.....	1,350		Steam turbines, kilowatt rating.....	6,000	
Other internal-combustion engines ² —			Diesel and semi-Diesel engines, kilowatt rating.....	950	
Number.....		¹ 185	Other internal-combustion engines, ² kilowatt rating.....		
Horsepower.....			Hydroturbines and water wheels, kilowatt rating.....		
Hydroturbines and water wheels—			Generators, ordinarily idle (included above), kilowatt rating.....	1,780	
Number.....		¹ 5			
Horsepower.....		¹ 310	Electric motors, total:		
Prime movers, driving generators, ordinarily idle			Number.....	11,605	6,713
(included above), horsepower.....	3,379		Horsepower.....	77,880	59,680
Prime movers not driving generators, total—			Driven by purchased energy—		
Number.....	16		Number.....	10,058	5,629
Horsepower.....	2,220		Horsepower.....	66,469	49,115
Steam engines—			Driven by energy generated in establishments reporting—		
Number.....	3		Number.....	1,547	1,084
Horsepower.....	475		Horsepower.....	11,411	10,565
Steam turbines—			Electric energy (kilowatt-hours):		
Number.....	5		Generated in plant.....	11,432,703	
Horsepower.....	640		Sold.....	865,288	
			Purchased.....	60,841,414	

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

FORGINGS, IRON AND STEEL—MADE IN PLANTS NOT OPERATED IN CONNECTION WITH ROLLING MILLS

[A preliminary report for this industry was issued December 5, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the production of commercial forgings. The industry does not include the manufacture of forged products such as tools, for which separate census classifications are provided, nor of forged parts

made and consumed in the same works by manufacturers of motor vehicles, railway cars, machinery, etc. The phrase "made in plants not operated in connection with rolling mills" refers to production in plants operated entirely independently of rolling mills.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horsepower of prime movers
1939	207	15,372	\$22,652,054	\$51,973,575	\$104,883,196	\$52,909,621	13,382
1937	194	18,255	27,659,271	63,223,605	122,835,051	59,611,446	(5)
1935	185	12,253	15,106,625	35,108,285	65,351,027	31,242,732	(5)
1933	181	7,953	7,354,390	16,895,827	32,523,029	15,627,202	(5)
1931	202	9,971	11,443,854	22,656,979	47,699,672	25,042,693	(5)
1929	218	20,882	34,505,349	71,606,964	156,243,947	84,641,983	24,986
1927	219	15,594	23,539,551	52,101,995	105,035,719	52,933,724	14,799
1925	227	20,483	31,587,906	68,577,495	135,918,624	67,341,139	18,834
1923	244	27,723	40,539,328	93,590,528	180,824,712	87,234,184	(5)
1921	252	16,947	20,950,139	45,291,495	85,082,938	39,791,443	(5)
1919	261	29,135	40,602,802	83,561,111	177,119,105	93,557,994	30,012
1914	213	11,277	7,849,883	15,360,471	30,747,450	15,446,979	20,856
1909	191	8,461	5,169,459	10,595,705	21,308,016	10,712,311	20,389
1904	146	5,897	3,554,819	6,068,057	12,909,376	6,901,319	15,035
1899	97	4,919	2,676,860	5,423,567	10,936,061	5,512,494	7,507

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Massachusetts	Michigan	New Jersey	New York	Ohio	Pennsylvania	Washington	Wisconsin	Other States ¹
Number of establishments ²	207	11	8	27	9	10	22	10	16	34	33	5	7	15
Proprietors and firm members.....	40	10	3	5	-----	2	1	5	3	1	9	-----	-----	1
Persons reported by manufacturing establishments, total ³	18,043	308	608	3,233	1,144	1,380	1,693	560	1,236	3,524	2,292	96	1,489	481
Salaried officers of corporations ⁴	329	8	14	44	18	17	37	12	33	67	43	4	16	16
Manufacturing:														
Salaried employees ⁵	1,689	33	69	342	54	200	96	50	147	280	214	14	148	42
Wage earners (average for the year) ⁵	15,372	252	510	2,620	1,051	1,081	1,537	482	1,018	3,077	1,963	65	1,308	409
Distribution.....	474	15	15	141	20	16	23	16	38	81	69	12	17	11
Construction.....	131	-----	-----	48	-----	66	-----	-----	-----	12	3	1	-----	1
Other.....	48	-----	-----	38	1	-----	-----	-----	-----	7	-----	-----	-----	2
Salaries and wages, total ⁵	\$30,123,958	\$534,025	\$912,163	\$5,900,393	\$1,795,534	\$2,305,008	\$2,792,668	\$1,049,289	\$1,879,666	\$5,955,585	\$3,588,523	\$142,894	\$2,518,925	\$749,285
Salaried officers ⁵	2,373,457	40,595	86,418	327,287	85,261	197,855	262,625	108,231	200,124	514,354	300,772	12,748	149,762	87,425
Manufacturing:														
Salaries ⁵	3,849,710	87,050	137,651	837,132	117,611	386,203	218,573	132,876	278,283	630,232	505,549	22,338	404,778	91,434
Wages.....	22,652,054	370,264	646,500	4,412,250	1,562,502	1,590,814	2,263,693	739,680	1,314,159	4,603,557	2,611,872	87,705	1,910,493	538,505
Distribution.....	1,012,614	36,116	41,534	198,691	29,460	55,693	47,777	68,502	87,100	178,430	167,097	19,299	53,892	29,023
Construction.....	179,914	-----	-----	80,349	-----	74,443	-----	-----	-----	19,393	3,233	804	-----	1,692
Other.....	56,209	-----	-----	44,684	700	-----	-----	-----	-----	9,619	-----	-----	-----	1,206
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	51,973,575	1,403,352	1,123,829	11,638,102	3,400,508	2,962,942	5,299,645	1,310,825	3,372,966	10,140,755	5,545,442	271,507	4,238,246	1,265,456
Materials and supplies.....	46,244,315	1,324,433	972,726	10,621,115	3,011,332	2,583,357	4,504,987	1,081,910	3,043,955	8,957,815	4,852,344	251,987	3,867,791	1,170,563
Fuel.....	3,763,186	59,756	101,518	724,361	263,092	230,607	370,926	196,010	222,157	758,621	512,224	8,868	254,950	60,096
Purchased electric energy.....	1,419,432	18,763	45,085	265,313	126,084	116,598	151,709	17,923	98,474	254,367	173,985	10,652	105,682	34,797
Contract work.....	546,642	400	4,500	27,313	-----	32,380	272,023	14,982	8,380	169,952	6,889	-----	9,823	-----
Value of products.....	104,883,196	2,625,765	2,453,346	22,911,692	6,454,013	6,663,464	9,850,950	3,461,210	6,421,272	20,389,453	12,316,922	594,501	8,248,220	2,492,388
Value added by manufacture ⁶	52,909,621	1,222,413	1,329,517	11,273,590	3,053,505	3,700,522	4,551,305	2,150,385	3,048,306	10,248,698	6,771,480	322,994	4,009,974	1,226,932

¹ Alabama, 2 establishments; Colorado, 2; Iowa, 1; Kentucky, 2; Maryland, 3; Missouri, 1; Oregon, 1; Tennessee, 1; Texas, 1; Virginia, 1.² See GENERAL EXPLANATIONS—Definition of establishment.³ See GENERAL EXPLANATIONS—Persons engaged—general classification.⁴ See GENERAL EXPLANATIONS—Wage earners and wages.⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937		1939	1937
"Forgings, Iron and Steel, Made in Plants Not Operated in Connection with Rolling Mills," industry, all products, total value.....	\$104,883,196	\$122,835,051	Forgings, iron and steel, made in plants not operated in connection with rolling mills, aggregate value.....	\$114,990,580	\$143,205,031
Forgings, iron and steel, made in the industry.....	95,617,709	115,790,147	Forgings, iron and steel, made in this industry.....	95,617,709	115,790,147
Miscellaneous products not specified.....	461,779	-----	Forgings, iron and steel, made as secondary products in other industries (not including the "Steel works and rolling mills" industry).....	19,372,871	27,414,884
Receipts for contract and repair work.....	300,052	7,044,904			
Scrap and salable refuse.....	1,505,157	-----			
Other products (not classified in the industry).....	6,998,499	-----			

¹ Value of dies, tools, fittings, and heavy stampings.

TABLE 4.—PRODUCTS BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production statistics were collected for this industry; therefore, no statistics for table 4 are available.

FORGINGS, IRON AND STEEL

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TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	15,372	14,403	14,474	14,403	14,558	14,546	14,354	14,429	14,697	15,821	17,170	17,548	18,056
1937	18,255	17,769	18,371	18,935	19,326	18,901	18,630	17,776	18,294	18,671	18,419	17,502	16,467
1929	20,882	20,932	21,632	22,280	22,529	22,286	21,988	21,600	21,218	20,706	18,972	18,171	18,270
California	252	226	225	221	232	234	231	251	266	271	287	282	294
Connecticut	510	462	475	501	504	514	511	531	538	532	553	482	517
Illinois	2,620	2,435	2,446	2,511	2,509	2,462	2,462	2,464	2,450	2,628	2,892	3,066	3,114
Indiana	1,051	1,056	1,001	936	938	978	995	1,029	941	1,022	1,158	1,261	1,293
Maryland	142	76	92	97	73	103	87	34	72	211	280	315	312
Massachusetts	1,081	1,029	1,024	977	1,035	1,046	940	924	1,062	1,225	1,344	1,165	1,203
Michigan	1,537	1,495	1,499	1,446	1,424	1,428	1,394	1,446	1,464	1,585	1,699	1,775	1,788
New Jersey	482	440	449	453	463	465	454	450	467	477	520	554	587
New York	1,018	911	933	943	940	921	928	960	1,017	1,053	1,127	1,220	1,258
Ohio	3,077	2,916	2,939	2,992	2,984	2,954	2,964	2,956	3,003	3,109	3,307	3,331	3,474
Pennsylvania	1,963	1,847	1,891	1,826	1,897	1,886	1,827	1,789	1,872	1,978	2,167	2,244	2,332
Washington	65	57	59	66	69	64	69	60	61	65	69	74	69
Wisconsin	1,808	1,214	1,224	1,194	1,267	1,242	1,288	1,285	1,237	1,263	1,440	1,451	1,499

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	207
Reporting expenditures for plant and equipment	136
Value of products:	
Total for the industry	\$104,883,196
Reporting expenditures for plant and equipment	93,741,052
Expenditures for plant and equipment:	
Total for the industry	2,413,843
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	509,126
Expenditures for new machinery and operating equipment	1,715,250
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	189,467

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$15,777,677	\$15,959,391
Finished products	3,925,199	3,655,325
Materials, supplies, etc.	11,852,478	12,304,066
End of year, total	20,665,161	18,083,661
Finished products	4,195,162	4,561,270
Materials, supplies, etc.	16,469,999	13,522,391
Value of products for the industry, total	104,883,196	122,835,051
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	104,883,196	116,970,748
Value for establishments not reporting inventories		5,864,303

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments	207	218
Number of establishments reporting power equipment	203	216
Prime movers, aggregate:		
Number	68	126
Horsepower	13,382	24,986
Prime movers, driving generators, total—		
Number	41	1128
Horsepower	9,144	124,986
Steam engines—		
Number	18	184
Horsepower	2,454	113,439
Steam turbines—		
Number	7	120
Horsepower	3,825	10,402

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Diesel and semi-Diesel engines—		
Number	11	114
Horsepower	2,600	11,710
Other internal-combustion engines ¹ —		
Number	5	
Horsepower	265	
Hydroturbines and water wheels—		
Number		18
Horsepower		1435
Prime movers, driving generators, ordinarily idle (included above), horsepower	525	
Prime movers not driving generators, total—		
Number	27	
Horsepower	4,238	
Steam engines—		
Number	19	
Horsepower	3,165	
Steam turbines—		
Number	2	(*)
Horsepower	235	
Diesel and semi-Diesel engines—		
Number	2	
Horsepower	675	
Other internal-combustion engines ¹ —		
Number	2	
Horsepower	38	
Hydroturbines and water wheels—		
Number	2	
Horsepower	125	
Prime movers not driving generators, ordinarily idle (included above), horsepower	175	
Generators, kilowatt rating, total	6,405	11,802
Generators, driven by—		
Steam engines, kilowatt rating	1,812	
Steam turbines, kilowatt rating	2,646	
Diesel and semi-Diesel engines, kilowatt rating	1,805	(*)
Other internal-combustion engines, ² kilowatt rating	142	
Generators, ordinarily idle (included above), kilowatt rating	375	(*)
Electric motors, total:		
Number	14,433	11,352
Horsepower	144,179	140,692
Driven by purchased energy—		
Number	12,646	9,768
Horsepower	130,680	122,505
Driven by energy generated in establishments reporting—		
Number	1,787	1,584
Horsepower	13,499	18,187
Electric energy (kilowatt-hours):		
Generated in plant	11,144,558	(*)
Purchased	89,910,477	121,416,813

¹ Includes data for prime movers not driving generators.

² Gas, gasoline, etc.

³ Not called for on schedule.

⁴ Data not available.

WROUGHT PIPES, WELDED AND HEAVY RIVETED—MADE IN PLANTS NOT OPERATED IN CONNECTION WITH ROLLING MILLS

[A preliminary report for this industry was issued December 3, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of iron and steel wrought-welded pipes, tubes, lock-joint and heavy-riveted pipes, and electrical conduit. These commodities are also produced, to a large extent, by establishments classified in the "Steel works and rolling mills" industry. The production of electrical conduit from purchased pipe is classified in the "Wiring devices and supplies" industry, and the production of seamless pipes and tubes is classified in the "Steel works and rolling mills" industry. Detailed statistics covering the total production of wrought pipe in all industries in which it is made are given in the report for the "Steel works and rolling mills" industry.

The phrase "made in plants not operated in connection with rolling mills" refers to production in plants operated entirely independently of rolling mills, although they may be in some cases under the same ownership.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	49	8,370	\$12,306,077	\$41,856,222	\$75,864,616	\$34,008,394	4,595
1937.....	53	14,125	19,436,410	68,023,783	113,703,744	45,139,961	(5)
1935.....	45	10,720	11,793,078	42,284,505	73,848,840	31,594,334	(5)
1933.....	44	6,552	5,579,736	20,821,333	34,856,654	14,135,321	(5)
1931.....	51	8,045	9,889,930	42,291,098	75,040,579	32,749,481	(5)
1929.....	50	11,417	18,762,303	70,120,941	124,658,966	54,538,025	14,710
1927.....	44	11,083	16,066,001	55,778,864	98,186,341	42,407,477	20,266
1925.....	42	10,871	17,156,545	59,142,447	94,695,553	35,553,106	22,735
1923.....	53	10,633	17,704,699	57,965,845	90,823,189	32,857,344	(5)
1921.....	57	8,728	11,234,413	37,093,041	56,662,278	19,569,237	(5)
1919.....	50	10,426	14,919,676	51,155,653	81,869,115	30,713,462	13,456
1914.....	36	8,845	5,750,360	26,295,788	37,655,229	11,359,441	14,845
1909.....	28	6,817	3,963,075	22,941,909	30,888,270	7,944,361	10,892
1904.....	27	5,416	2,472,721	12,746,619	17,400,912	4,654,293	14,975
1899.....	19	5,536	2,495,898	15,523,858	21,292,043	5,798,185	11,680

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Michigan	Ohio	Pennsylvania	Other States ¹
Number of establishments ²	49	14	3	5	4	10	13
Proprietors and firm members.....	8	6	2				
Persons reported by manufacturing establishments, total ³	9,670	531	553	2,113	682	4,150	1,641
Salaried officers of corporations ⁴	66	9	7	12	8	13	17
Manufacturing:							
Salaried employees ⁵	925	16	28	300	109	319	153
Wage earners (average for the year) ⁶	8,370	488	457	1,710	550	3,785	1,380
Distribution.....	265	18	58	91	15	32	51
Construction.....	30		3				27
Other.....	14					1	13
Salaries and wages, total ⁷	\$15,794,293	\$831,616	\$1,029,165	\$3,923,568	\$1,145,367	\$6,076,753	\$2,787,824
Salaried officers ⁸	561,833	43,494	54,680	182,160	72,164	110,965	98,370
Manufacturing:							
Salaries ⁹	2,189,103	25,792	71,214	731,521	243,112	707,069	410,395
Wages.....	12,306,077	717,312	773,800	2,824,485	800,069	5,188,091	2,002,320
Distribution.....	645,250	46,018	123,244	185,402	30,022	69,428	192,138
Construction.....	54,102		6,227				47,875
Other.....	37,928					1,200	36,728
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	41,856,222	2,235,105	1,734,583	5,730,046	3,014,396	21,711,360	7,430,732
Materials and supplies.....	39,705,426	2,153,837	1,660,832	5,454,341	2,917,619	20,631,134	6,887,663
Fuel.....	1,025,932	6,733	24,407	53,817	20,662	794,509	125,804
Purchased electric energy.....	743,671	34,835	35,439	158,323	62,487	218,118	234,769
Contract work.....	381,193	40,000	13,905	63,565	13,628	67,599	182,496
Value of products.....	75,864,616	4,114,175	3,560,904	13,120,613	6,026,955	34,216,111	14,816,858
Value added by manufacture ¹⁰	34,008,394	1,879,070	1,826,321	7,399,567	3,012,559	12,604,751	7,380,125

¹ Arizona, 1 establishment; Indiana, 4; Massachusetts, 1; New Jersey, 1; New York, 3; Texas, 1; Washington, 1; Wisconsin, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939

Detailed production statistics for wrought-welded pipes, tubes, etc., covering the production in all industries in which they are made is shown in the report for the "Steel works and rolling mills" industry; therefore, no figures are given for tables 3 and 4.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Number of establishments	Tons (2,000 pounds)	Cost	Quantity not reported, cost
Iron and steel skelp.....	12	530,648	\$20,360,092	-----
Iron and steel sheets and strip.....	22	125,981	8,006,233	\$542,886
Iron and steel plates.....	5	6,062	285,279	-----

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	8,370	7,729	7,801	7,988	7,535	7,789	7,570	7,265	7,847	8,932	9,811	10,045	10,112
1937.....	14,125	13,798	14,328	14,908	15,437	15,500	13,862	13,864	14,220	14,076	14,174	13,365	11,070
1929.....	11,417	11,524	11,281	10,455	10,036	12,199	12,088	12,428	11,331	10,648	11,249	11,601	12,172
California.....	488	497	420	444	499	510	482	512	478	475	506	526	510
Illinois.....	457	308	407	424	428	435	467	495	480	472	525	514	529
Indiana.....	404	486	372	344	304	362	344	285	353	469	506	459	499
Michigan.....	1,710	1,689	1,606	1,600	1,449	1,355	1,216	1,156	1,505	1,971	2,196	2,405	2,376
New York.....	365	358	319	362	363	342	366	402	163	358	440	459	447
Ohio.....	550	522	497	520	554	616	551	492	520	557	606	615	652
Pennsylvania.....	3,785	3,357	3,640	3,726	3,318	3,680	3,626	3,438	3,750	3,951	4,281	4,324	4,329

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	49
Reporting expenditures for plant and equipment.....	36
Value of products:	
Total for the industry.....	\$75,864,616
Reporting expenditures for plant and equipment.....	70,977,350
Expenditures for plant and equipment:	
Total for the industry.....	2,187,947
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	245,510
Expenditures for new machinery and operating equipment.....	1,936,013
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	6,424

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$16,536,435	\$20,226,103
Finished products.....	9,582,751	12,557,703
Materials, supplies, etc.....	6,953,684	7,668,400
End of year, total.....	18,798,600	22,772,494
Finished products.....	10,297,243	14,827,301
Materials, supplies, etc.....	8,501,357	7,945,193
Value of products for the industry, total.....	75,864,616	113,768,744
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	75,850,466	112,653,199
Value for establishments not reporting inventories.....	14,150	1,115,545

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	49	50
Number of establishments reporting power equipment.....	48	50
Prime movers, aggregate:		
Number.....	13	31
Horsepower.....	4,595	14,710

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators, total—		
Number.....	5	131
Horsepower.....	4,175	14,710
Steam engines—		
Number.....	3	125
Horsepower.....	1,250	7,730
Steam turbines—		
Number.....	2	13
Horsepower.....	2,925	6,890
Diesel and semi-Diesel engines—		
Number.....		
Horsepower.....		
Other internal-combustion engines ¹ —		
Number.....		13
Horsepower.....		190
Prime movers not driving generators, total—		
Number.....	8	
Horsepower.....	420	
Steam engines—		
Number.....	2	(²)
Horsepower.....	200	
Internal-combustion engines, ² other than Diesel and semi-Diesel—		
Number.....	6	
Horsepower.....	220	
Generators, kilowatt rating, total.....	3,475	8,875
Generators, driven by—		
Steam engines, kilowatt rating.....	850	
Steam turbines, kilowatt rating.....	2,625	(³)
Electric motors, total:		
Number.....	7,671	5,850
Horsepower.....	87,735	78,785
Driven by purchased energy—		
Number.....	6,874	4,332
Horsepower.....	75,304	53,920
Driven by energy generated in establishments reporting—		
Number.....	797	1,518
Horsepower.....	12,431	24,865
Electric energy (kilowatt-hours):		
Generated in plant.....	5,247,384	(⁴)
Purchased.....	69,411,349	62,025,262

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

SPRINGS, STEEL (EXCEPT WIRE)—MADE IN PLANTS NOT OPERATED IN CONNECTION WITH ROLLING MILLS

[A preliminary report for this industry was issued November 28, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of leaf springs and hot-wound springs for railway equipment, vehicles, agricultural and mining machinery, etc. Establishments that produce motor vehicle springs for installation in motor vehicles in the same plants that produce motor vehicles are not included. Wire springs are a product of the "Wirework not elsewhere classified" industry. The phrase, "made in plants not operated in connection with rolling mills" refers to production in plants operated entirely independently of rolling mills, although in some cases under the same ownership.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1931 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	53	2,940	\$4,277,439	\$12,795,702	\$23,044,252	\$10,248,550	125
1937.....	57	3,902	5,803,978	16,153,285 ¹	27,233,204	11,079,919	(⁵)
1935.....	49	3,146	3,565,714	11,048,613 ¹	18,233,350	7,184,737	(⁵)
1933.....	60	2,112	1,971,871	5,543,128	10,412,560	4,869,432	(⁵)
1931 ⁷	77	2,561	3,100,629	6,366,512	12,614,312	6,247,800	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

⁷ No comparable figures for earlier years.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Illinois	Missouri	New York	Pennsylvania	Other States ¹
Number of establishments ²	53	8	4	7	5	14	15
Proprietors and firm members.....	12	2	—	3	—	2	5
Persons reported by manufacturing establishments, total ³	3,591	211	439	200	285	1,059	1,397
Salaried officers of corporations ⁴	71	9	8	5	7	25	17
Manufacturing:							
Salaried employees ⁴	370	17	23	33	25	97	175
Wage earners (average for the year) ⁴	2,940	147	333	148	240	912	1,160
Distribution.....	197	38	75	14	13	25	32
Construction.....	8	—	—	—	—	—	8
Other.....	5	—	—	—	—	—	5
Salaries and wages, total ⁵	\$5,738,797	\$308,433	\$583,592	\$232,671	\$442,057	\$1,710,195	\$2,461,849
Salaried officers ⁴	370,674	37,684	58,138	9,224	35,119	126,837	103,672
Manufacturing:							
Salaries ⁴	742,745	29,958	39,427	42,811	47,660	174,819	408,070
Wages.....	4,277,439	213,711	394,851	145,044	345,903	1,318,885	1,859,045
Distribution.....	321,107	27,080	91,176	35,592	13,375	89,654	64,230
Construction.....	20,746	—	—	—	—	—	20,746
Other.....	6,086	—	—	—	—	—	6,086
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	12,795,702	\$68,942	1,286,991	516,861	1,237,397	2,770,405	6,615,106
Materials and supplies.....	12,033,716	350,867	1,227,322	488,846	1,169,891	2,525,827	6,270,963
Fuel.....	493,407	11,182	40,699	16,439	13,089	173,987	238,011
Purchased electric energy.....	267,361	6,893	18,970	11,276	53,507	70,591	106,132
Contract work.....	1,216	—	—	300	910	—	—
Value of products.....	23,044,252	817,198	2,834,394	1,082,445	1,885,960	5,623,366	10,800,889
Value added by manufacture ⁵	10,248,550	448,256	1,547,403	565,584	648,563	2,852,961	4,185,783

¹ Indiana, 3 establishments; Massachusetts, 1; Michigan, 2; Ohio, 2; Oklahoma, 1; Oregon, 1; Texas, 2; Washington, 3.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Springs, Steel (Except Wire)—Made in Plants Not Operated in Connection With Rolling Mills Industry, all products, total value.....	\$23, 044, 252	\$27, 233, 204
Steel springs (except wire) ¹ made in this industry.....	19, 775, 112	24, 461, 595
Miscellaneous products not specified.....	265, 058	
Receipts for contract and repair work.....	477, 729	2, 771, 609
Other products (not classified in the industry).....	* 2, 526, 353	
Steel springs (except wire), total value.....	33, 906, 145	44, 317, 581
Steel springs (except wire) made in the industry.....	19, 775, 112	24, 461, 595
Steel springs (except wire) made as secondary products in other industries (including those made in plants operated in connection with rolling mills)....	14, 131, 033	19, 855, 986

¹ See text—third sentence.

* Value of wire springs, auto bumpers, steel castings, pressed steel products, etc.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	1939	1937
Total value.....	\$33, 906, 145	\$44, 317, 581
Flat leaf springs, hot-formed (for railroad equipment and vehicles):		
Quantity reported—		
Tons (2,000 pounds).....	196, 658	221, 027
Value.....	\$23, 883, 205	\$25, 344, 447
Quantity not reported, value.....	\$4, 941, 342	\$11, 049, 386
Helical springs, hot-wound (for railroad equipment, vehicles, agricultural and mining machinery, etc.):		
Quantity reported—		
Tons (2,000 pounds).....	35, 480	58, 304
Value.....	\$4, 480, 214	\$6, 461, 013
Quantity not reported, value.....	\$801, 384	\$1, 462, 735

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Number of establishments	Tons (2,000 pounds)	Cost
Carbon steel.....	28	50, 696	\$2, 599, 234
Alloy steel.....	44	113, 448	7, 244, 875

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	2, 940	2, 747	2, 748	2, 817	2, 794	2, 727	2, 602	2, 576	2, 736	3, 062	3, 299	3, 548	3, 623
1937.....	3, 902	3, 951	4, 030	4, 059	4, 160	4, 224	4, 199	3, 914	3, 808	3, 941	3, 933	3, 599	3, 003
California.....	147	138	136	145	150	152	153	151	150	151	148	146	144
Illinois.....	333	257	263	284	312	302	309	365	366	388	386	391	373
Indiana.....	255	244	261	298	298	242	233	231	237	249	258	265	249
Missouri.....	148	146	144	147	147	149	149	148	149	148	147	150	154
New York.....	240	229	226	234	224	212	195	202	198	208	237	338	375
Pennsylvania.....	912	799	825	803	803	814	828	841	857	883	1, 025	1, 221	1, 248
Washington.....	9	8	8	9	10	10	9	9	10	10	10	8	7

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	53
Reporting expenditures for plant and equipment.....	36
Value of products:	
Total for the industry.....	\$23, 044, 252
Reporting expenditures for plant and equipment.....	18, 785, 333
Expenditures for plant and equipment:	
Total for the industry.....	254, 016
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	14, 985
Expenditures for new machinery and operating equipment.....	204, 001
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	35, 030

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$2, 263, 624	\$3, 147, 743
Finished products.....	708, 136	718, 277
Materials, supplies, etc.....	1, 555, 488	2, 429, 466
End of year, total.....	3, 698, 345	3, 342, 363
Finished products.....	958, 501	942, 167
Materials, supplies, etc.....	2, 739, 844	2, 400, 196

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937—Continued

	1939	1937
Value of products for the industry, total.....	\$23, 044, 252	\$27, 233, 204
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	23, 044, 252	26, 387, 055
Value for establishments not reporting inventories.....		846, 149

TABLE 9.—PRIME MOVERS, MOTORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	53
Number of establishments reporting power equipment.....	53
Prime movers, steam engines, not driving generators:	
Number.....	1
Horsepower.....	125
Electric motors driven by purchased energy:	
Number.....	2, 431
Horsepower.....	16, 241
Electric energy purchased (kilowatt-hours).....	21, 910, 334

¹ No comparable data for 1929.

SCREW-MACHINE PRODUCTS AND WOOD SCREWS

[A preliminary report for this industry was issued December 21, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the production of (1) machine screws, cap and set screws, and a great variety of special parts and small articles (many of which are threaded) made on "screw machines," and (2) wood screws.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	345	16,924	\$22,106,007	\$32,649,213	\$82,806,869	\$50,157,656	8,830
1937.....	311	21,287	28,030,091	42,713,755	102,725,083	60,011,328	(5)
1935.....	302	15,018	16,825,014	27,228,408	63,029,478	35,801,070	(5)
1933.....	255	10,236	8,950,979	13,485,134	33,449,458	19,964,324	(5)
1931.....	275	12,047	13,478,221	16,141,995	43,697,573	27,555,578	(5)
1929.....	273	19,881	28,986,604	39,462,568	105,974,662	66,512,094	8,733
1927.....	218	13,690	18,055,095	25,910,223	60,020,261	34,110,038	7,954
1925.....	205	14,071	18,193,669	25,076,378	59,614,894	34,538,516	8,930
1923.....	190	13,234	16,943,362	21,564,854	52,945,878	31,381,024	(5)
1921.....	168	8,653	9,344,553	10,038,988	25,783,731	15,744,743	(5)
1919.....	154	15,151	16,969,393	20,535,431	55,475,042	34,939,611	6,958
1914.....	78	8,089	4,260,132	5,408,124	13,464,442	8,056,318	9,215
1909.....	54	5,131	2,424,020	3,469,004	9,213,067	5,744,063	7,278
1904.....	33	3,453	1,498,189	1,882,169	4,845,444	3,163,275	6,411
1899.....	33	3,527	1,423,838	1,720,455	4,658,467	2,938,012	4,683

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	California	Connecticut	Illinois	Indiana	Massachusetts	Michigan	Missouri
Number of establishments ¹	345	20	34	52	13	26	53	6
Proprietors and firm members.....	182	20	14	31	8	15	27	3
Persons reported by manufacturing establishments, total ²	20,300	398	3,018	3,778	460	1,643	2,497	178
Salaried officers of corporations ³	458	11	52	63	11	47	76	5
Manufacturing:								
Salaried employees ³	1,819	25	291	347	54	210	189	17
Wage earners (average for the year) ²	16,924	350	2,564	3,017	383	1,342	2,156	151
Distribution.....	991	12	108	314	12	44	47	5
Construction.....	94		3	31			26	
Other.....	14			6			3	
Salaries and wages, total ²	\$30,800,223	\$591,724	\$4,206,213	\$6,206,262	\$636,259	\$2,487,383	\$4,099,848	\$293,258
Salaried officers ³	2,924,281	62,295	291,439	593,041	60,364	218,470	385,400	29,905
Manufacturing:								
Salaries ³	3,655,408	34,822	534,167	764,603	82,396	351,292	398,014	31,511
Wages.....	22,106,007	473,276	3,141,605	4,185,397	476,724	1,783,694	3,180,577	210,088
Distribution.....	1,990,162	21,331	235,604	616,405	16,775	133,927	108,291	21,804
Construction.....	107,251		3,398	39,208			25,712	
Other.....	17,114			7,708			1,854	
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	32,649,213	657,828	4,506,995	6,168,162	885,435	1,986,113	5,428,271	230,676
Materials, supplies, and containers.....	29,986,563	632,355	4,228,217	5,725,892	807,639	1,768,818	4,921,459	217,974
Fuel.....	520,625	356	65,281	89,225	11,807	31,115	89,868	2,852
Purchased electric energy.....	1,194,135	17,572	137,919	196,329	42,219	118,044	205,208	9,826
Contract work.....	947,890	7,545	75,578	156,716	23,770	68,136	211,736	24
Value of products.....	82,806,869	1,624,975	11,149,093	16,470,005	1,844,686	6,192,932	11,759,116	704,623
Value added by manufacture ⁴	50,157,656	967,147	6,642,098	10,301,843	959,251	4,206,819	6,330,845	473,947

See footnotes at end of table.

SCREW-MACHINE PRODUCTS AND WOOD SCREWS

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TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	New Jersey	New York	Ohio	Pennsyl- vania	Rhode Island	Wisconsin	Other States ¹
Number of establishments ¹	7	31	55	20	10	11	7
Proprietors and firm members.....	1	18	21	15	-----	2	7
Persons reported by manufacturing establishments, total ²	272	1,107	3,897	1,256	1,314	314	168
Salaried officers of corporations ³	10	38	75	23	21	20	6
Manufacturing:							
Salaried employees ⁴	34	74	323	135	86	23	11
Wage earners (average for the year) ⁵	217	925	3,342	1,038	1,043	263	133
Distribution.....	11	70	131	58	156	8	15
Construction.....	-----	-----	21	2	8	-----	3
Other.....	-----	-----	5	-----	-----	-----	-----
Salaries and wages, total ²	\$447,699	\$1,675,777	\$5,868,878	\$1,958,654	\$1,578,930	\$507,826	\$241,512
Salaried officers ³	85,187	255,187	504,710	193,693	124,049	92,302	28,239
Manufacturing:							
Salaries ⁴	71,903	137,857	692,186	315,147	190,415	37,551	13,644
Wages.....	271,122	1,131,122	4,371,776	1,303,190	1,041,636	362,174	173,676
Distribution.....	19,487	151,611	270,574	143,952	211,749	15,799	22,553
Construction.....	-----	-----	22,080	2,672	11,081	-----	8,100
Other.....	-----	-----	7,552	-----	-----	-----	-----
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	361,106	1,777,034	7,032,771	1,563,031	1,221,032	520,969	309,740
Materials, supplies, and containers.....	301,116	1,670,760	6,495,662	1,447,986	1,009,185	463,646	295,854
Fuel.....	7,159	24,877	126,134	29,593	33,134	6,635	2,589
Purchased electric energy.....	13,484	66,877	225,109	63,453	65,899	23,308	8,888
Contract work.....	39,347	14,520	185,866	21,999	112,864	27,380	2,409
Value of products.....	1,151,521	4,636,567	16,832,500	5,005,900	3,520,576	1,210,367	704,008
Value added by manufacture ⁴	790,415	2,859,533	9,799,729	3,442,869	2,299,494	689,398	394,268

¹ See GENERAL EXPLANATIONS—Definition of establishment.² See GENERAL EXPLANATIONS—Persons engaged—general classification.³ See GENERAL EXPLANATIONS—Wage earners and wages.⁴ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.⁵ Maryland, 1 establishment; Minnesota, 3; New Hampshire, 1; Texas, 1; Washington, 1.TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES:
1939, 1937, AND 1929

	1939	1937	1929
"Screw-Machine Products and Wood Screws" industry, all products, total value.....	\$82,806,869	\$102,725,083	\$105,974,662
Screw-machine products and wood screws made in this industry.....	71,460,849	89,840,401	87,080,909
Miscellaneous products not specified.....	2,012,911		
Receipts for contract and repair work.....	952,302	12,884,682	18,893,753
Other products (not classified in this industry).....	18,380,807		
Screw-machine products and wood screws, total value.....	87,471,945	109,823,071	104,458,355
Screw-machine products and wood screws made in this industry.....	71,460,849	89,840,401	87,080,909
Screw-machine products and wood screws made as secondary products in other industries.....	16,011,096	19,982,670	17,377,446

¹ Value of bolts and nuts, washers, rivets, socket wrenches, hardware, etc.TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR
THE UNITED STATES: 1939, 1937, AND 1929[For detailed production statistics for bolts, nuts, washers, rivets, etc., see report for
"Steel works and rolling mills" industry]

PRODUCT	1939	1937	1929
Total value.....	\$87,471,945	\$109,823,071	\$104,458,355
Screw-machine products, total value.....	\$80,305,375	\$100,776,803	\$91,468,367
Iron and steel machine screws:			
Quantity reported—			
Gross.....	32,646,966	44,212,435	
Value.....	\$5,004,595	\$8,133,494	
Quantity not reported, value.....	\$3,341,822	\$2,600,576	
Sheet-metal screws:			
Quantity reported—			
Gross.....	7,147,647		
Value.....	\$1,881,376		
Quantity not reported, value.....	\$1,653,360		
Nonferrous machine screws:			
Quantity reported—			
Gross.....	4,427,697	5,059,058	
Value.....	\$1,826,191	\$1,568,724	
Quantity not reported, value.....	\$582,069	\$436,839	

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR
THE UNITED STATES: 1939, 1937, AND 1929—Continued

PRODUCT	1939	1937	1929
Screw-machine products—Continued.			
Cap and set screws, ferrous and non- ferrous:			
Quantity reported—			
Gross.....	6,443,417	8,955,998	
Value.....	\$6,217,607	\$8,810,213	
Quantity not reported, value.....	\$4,411,323	\$4,468,221	(²)
Other screw-machine products, value.....	\$55,387,032	\$74,758,736	
Wood screws, total value.....	\$7,166,570	\$9,046,268	\$12,989,988
Quantity reported:			
Gross.....	35,709,344	41,362,505	53,605,939
Value.....	\$6,037,184	\$7,569,799	\$10,725,174
Quantity not reported, value.....	\$1,129,386	\$1,470,469	\$2,264,814
Iron and steel:			
Quantity reported—			
Gross.....	32,719,119	37,501,491	
Value.....	\$4,959,113	\$6,196,669	
Quantity not reported, value.....	\$1,067,186	\$1,435,461	
Nonferrous:			
Quantity reported—			
Gross.....	2,990,225	3,861,014	
Value.....	\$1,078,071	\$1,373,130	
Quantity not reported, value.....	\$62,200	\$41,008	(²)

¹ Not called for separately on questionnaire for 1937.² Data not available.TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY,
BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES:
1939

KIND	Quantity (tons, 2,000 pounds)	Cost	Quantity not re- ported, cost
Iron and steel rods and bars (cold-drawn or rolled).....	108,279	\$7,582,752	\$610,500
Iron and steel rods and bars (hot-rolled).....	46,185	2,470,856	91,269
Iron and steel wire, purchased as such.....	36,382	2,284,439	742,631
Iron and steel washer stock (plates, strip, or sheet):			
Primes.....	4,037	228,933	4,125
Seconds.....	3,553	113,212	

CENSUS OF MANUFACTURES: 1939

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	16,924	15,801	16,007	16,031	15,954	15,717	15,518	15,713	16,335	17,104	18,653	19,887	20,365
1937	21,287	20,483	20,954	21,642	22,153	22,344	21,614	22,025	21,943	22,306	21,995	20,322	17,664
1929	19,881	19,689	20,346	21,093	21,139	21,293	21,538	21,489	20,925	19,691	18,725	16,723	15,915
California	350	282	304	314	340	358	367	335	347	367	375	388	420
Connecticut	2,504	2,328	2,296	2,321	2,399	2,393	2,402	2,465	2,562	2,602	2,792	3,044	3,166
Illinois	3,017	2,742	2,841	2,873	2,828	2,846	2,793	2,744	2,929	3,051	3,475	3,592	3,492
Indiana	853	373	369	367	344	294	329	365	385	409	439	464	456
Massachusetts	1,342	1,222	1,244	1,252	1,262	1,263	1,258	1,278	1,297	1,328	1,499	1,595	1,604
Michigan	2,156	2,263	2,280	2,252	2,102	1,903	1,731	1,839	1,964	2,168	2,332	2,440	2,594
Minnesota	36	28	33	33	36	43	43	45	42	34	31	33	34
Missouri	151	146	146	145	145	146	145	149	150	153	165	166	157
New Jersey	217	211	211	209	215	211	201	193	207	215	230	242	256
New York	925	830	855	874	892	897	913	908	937	925	979	1,026	1,061
Ohio	3,342	3,148	3,171	3,089	3,080	3,017	2,980	3,026	3,123	3,410	3,803	4,086	4,158
Pennsylvania	1,038	865	892	934	956	988	1,015	1,055	992	981	1,096	1,284	1,396
Rhode Island	1,043	1,041	1,021	1,020	1,004	1,012	999	966	1,051	1,070	1,055	1,132	1,146
Wisconsin	263	232	250	253	256	257	248	246	257	278	283	293	303

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	345
Reporting expenditures for plant and equipment	246
Value of products:	
Total for the industry	\$82,806,869
Reporting expenditures for plant and equipment	74,340,783
Expenditures for plant and equipment:	
Total for the industry	3,304,074
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	412,363
Expenditures for new machinery and operating equipment	2,385,153
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	526,553

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$15,492,077	\$14,158,298
Finished products	9,258,284	7,015,914
Materials, supplies, etc.	6,233,793	7,142,384
End of year, total	16,990,083	17,653,374
Finished products	8,856,844	9,357,626
Materials, supplies, etc.	8,133,189	8,295,748
Value of products for the industry, total	82,806,869	102,725,083
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	82,491,511	101,042,567
Value for establishments not reporting inventories	315,358	1,682,516

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments	345	273
Number of establishments reporting power equipment	345	266
Prime movers, aggregate:		
Number	47	38
Horsepower	8,830	8,733
Prime movers, driving generators, total—		
Number	38	128
Horsepower	7,738	18,733
Steam engines—		
Number	8	121
Horsepower	3,650	17,175

TABLE 9.—PRIME MOVERS, GENERATORS, MOTORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.		
Steam turbines—		
Number	1	12
Horsepower	975	1,653
Diesel and semi-Diesel engines—		
Number	23	
Horsepower	2,603	1,13
Other internal-combustion engines ² :		
Number	3	1,755
Horsepower	250	
Hydroturbines and water wheels—		
Number	3	12
Horsepower	260	1,150
Prime movers, driving generators, ordinarily idle (included above), horsepower	277	
Prime movers not driving generators, total—		
Number	9	
Horsepower	1,092	
Steam engines—		
Number	2	(¹)
Horsepower	675	
Diesel and semi-Diesel engines—		
Number	5	
Horsepower	337	
Other internal-combustion engines ² :		
Number	2	
Horsepower	80	
Prime movers not driving generators, ordinarily idle (included above), horsepower	650	
Generators, kilowatt rating, total	5,228	3,772
Generators, driven by—		
Steam engines, kilowatt rating	2,475	
Steam turbines, kilowatt rating	650	
Diesel and semi-Diesel engines, kilowatt rating	1,770	(¹)
Other internal-combustion engines, ² kilowatt rating	186	
Hydroturbines and water wheels, kilowatt rating	147	
Generators, ordinarily idle (included above), kilowatt rating	175	(¹)
Electric motors, total:		
Number	14,210	7,524
Horsepower	77,192	59,586
Driven by purchased energy—		
Number	12,873	7,275
Horsepower	69,629	56,107
Driven by energy generated in establishments reporting—		
Number	1,337	249
Horsepower	7,563	3,479
Electric energy (kilowatt-hours):		
Generated in plant	7,991,563	(¹)
Sold	319,820	(²)
Purchased	67,266,992	71,340,585

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

STEEL BARRELS, KEGS, AND DRUMS

[A preliminary report for this industry was issued December 19, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of steel barrels and drums with welded side seams (heavy types); welded side seam and lock side seam (light types); and other metal casings with welded side seam and lock side seam; steel packages; kegs and pails; etc., used for shipping purposes.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	64	6,072	\$7,360,075	\$32,328,346	\$49,165,973	\$16,837,627	2,105
1937.....	58	6,231	7,356,641	30,295,652	48,175,322	17,879,670	(⁵)
1935.....	64	5,761	5,839,272	21,089,650	34,649,993	13,560,343	(⁵)

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1919 TO 1939—Continued

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1933.....	58	6,517	\$6,025,934	\$18,035,099	\$30,399,426	\$12,364,327	(⁵)
1931.....	52	3,253	3,512,696	12,989,820	21,644,288	8,654,468	(⁵)
1929.....	53	4,110	5,769,097	21,946,559	37,825,027	15,878,468	1,800
1927.....	39	2,853	3,985,629	14,735,518	24,104,669	9,369,151	3,080
1925.....	33	2,021	2,914,381	12,743,280	19,928,094	7,184,814	3,050
1923.....	39	2,668	3,363,374	14,818,038	23,248,707	8,430,669	(⁵)
1921.....	31	2,013	2,322,503	9,266,744	14,525,010	5,258,266	(⁵)
1919 ⁷	33	3,322	4,435,444	15,151,210	24,942,650	9,791,440	2,305

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

⁷ No comparable data for years prior to 1919.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Illinois	Louisiana	New Jersey	New York	Ohio	Pennsylvania	Other States ¹
Number of establishments ²	64	6	3	5	3	16	5	26
Proprietors and firm members.....	8							8
Persons reported by manufacturing establishments, total ³	6,964	1,534	298	588	219	1,591	377	2,357
Salaried officers of corporations ⁴	71	10		3	2	29	10	17
Manufacturing:								
Salaried employees ⁴	550	99	13	44	38	154	33	169
Wage earners (average for the year) ⁴	6,072	1,307	277	506	174	1,376	322	2,110
Distribution.....	260	118	8	35	4	27	12	56
Construction.....	11				1	5		5
Other.....								
Salaries and wages, total ³	\$9,544,686	\$1,922,640	\$290,986	\$938,279	\$312,945	\$2,430,521	\$500,428	\$3,148,887
Salaried officers ⁴	525,046	137,101		17,500	23,750	203,836	54,354	88,505
Manufacturing:								
Salaries ⁴	1,060,835	167,410	35,682	107,547	65,795	318,639	52,722	313,040
Wages ⁴	7,360,075	1,356,918	235,384	757,089	219,545	1,819,575	367,295	2,604,269
Distribution.....	581,041	261,211	19,920	56,143	3,059	82,297	26,057	132,354
Construction.....	17,689				796	6,174		10,719
Other.....								
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	32,328,346	4,931,745	1,982,818	4,373,114	985,633	7,309,260	2,140,823	10,604,953
Materials and supplies.....	31,662,936	4,808,786	1,958,244	4,294,148	965,788	7,111,476	2,089,730	10,434,764
Fuel.....	223,323	20,310	6,649	29,515	8,826	73,522	17,191	67,310
Purchased electric energy.....	384,712	76,549	17,925	49,451	11,019	111,022	33,902	84,844
Contract work.....	57,375	28,100				13,240		18,035
Value of products.....	49,165,973	8,230,641	2,673,564	5,902,665	1,500,639	11,478,720	3,299,040	16,080,704
Value added by manufacture ⁵	16,837,627	3,298,896	690,746	1,529,551	515,006	4,169,460	1,158,217	5,475,751

¹ Alabama, 2 establishments; California, 4; Connecticut, 1; Iowa, 2; Maryland, 2; Massachusetts, 1; Minnesota, 1; Mississippi, 1; Missouri, 5; Texas, 4; Virginia, 1; West Virginia, 1; Wisconsin, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

CENSUS OF MANUFACTURES: 1939

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Steel Barrels, Kegs, and Drums industry, all products, total value.....	\$49,165,973	\$48,175,322
Steel barrels, kegs, and drums made in the industry.....	43,903,663	42,271,893
Miscellaneous products not specified.....	¹ 1,020,312	
Receipts for contract work.....	198,990	5,903,429
Other products (not classified in this industry).....	² 4,043,008	
Steel barrels, kegs, and drums, total value.....	54,138,600	49,497,650
Steel barrels, kegs, and drums made in the industry.....	43,903,663	42,271,893
Steel barrels, kegs, and drums made as secondary products in other industries.....	10,234,937	7,225,757

¹ Includes the value of reconditioned steel barrels reported separately.² Value of stamped steel, plain and japanned or paint-enamelled; stove and furnace pipe and flue and air ducts; pails, ash and garbage cans, etc.; stamped automotive parts and accessories, other stampings; and tanks and bins.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939

PRODUCT	1939 ¹	
	Number	Value
Total value.....		\$54,138,600
Steel barrels and drums, except beer barrels and stainless containers, total value.....		40,451,986
Heavy types, welded side seam:		
Number reported.....	7,720,541	17,318,804
Number not reported.....		750,016
Light types:		
Welded side seam—		
Number reported.....	12,550,139	18,189,762
Number not reported.....		1,668,391
Lock side seam.....	3,468,646	2,525,013
Other metal casings, welded and lock side seam:		
Number reported.....	539,202	301,367
Number not reported.....		142,686

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE FOR THE UNITED STATES: 1939—Continued

PRODUCT	1939	
	Number	Value
Steel packages, kegs, pails, etc., not tinned (for shipping), 12-gallon capacity and smaller (light types), except beer barrels and stainless steel containers, total value.....		\$11,527,911
Welded side seam.....	25,478,397	9,774,097
Lock side seam:		
Number reported.....	13,122,955	1,191,763
Number not reported.....		562,051
Stainless steel shipping containers for food, beer, etc., and steel beer barrels: ²		
Number reported.....	145,423	1,441,592
Number not reported.....		273,058

¹ No detailed statistics on production were published for 1937.² Combined to avoid disclosing, exactly or approximately, the production of individual establishments.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Tons (2,000 pounds)	Cost
Steel sheets, plates, and strip hot-rolled (except stainless), total cost.....		\$19,193,235
Quantity reported.....	366,831	18,902,110
Quantity not reported.....		291,125
Steel sheets and strip cold-rolled (except stainless and vitreous-enamelled).....	58,858	2,818,481
Stainless-steel sheets and strip, total cost.....		199,310
Quantity reported.....	295	179,640
Quantity not reported.....		20,270
Tin plate.....	1,455	126,101
Terneplate.....	3,666	274,748
Black plate.....	16,840	997,709
Copper.....	7	2,791
Aluminum.....	12	8,119
Brass and bronze.....	26	8,070
Zinc.....	1,528	140,173

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	6,072	5,593	5,531	5,245	5,450	5,472	5,674	5,441	5,774	6,235	7,355	7,658	7,438
1937.....	6,231	6,556	6,342	6,203	6,367	6,281	6,447	6,475	6,349	6,140	5,984	6,046	5,579
1929.....	4,110	3,537	3,540	3,712	4,045	4,293	4,341	4,364	4,439	4,403	4,371	4,188	4,088
California.....	368	303	306	320	351	347	351	343	382	412	460	447	399
Illinois.....	1,307	1,212	1,228	1,107	1,253	1,258	1,334	1,104	1,374	1,320	1,452	1,539	1,508
Louisiana.....	277	363	336	200	188	191	192	198	196	260	446	386	369
Missouri.....	330	307	313	308	307	310	320	324	319	322	342	333	340
New Jersey.....	506	515	459	418	405	396	432	431	408	518	682	735	678
New York.....	174	171	172	177	174	174	171	171	172	170	180	175	177
Ohio.....	1,376	1,261	1,256	1,250	1,265	1,231	1,216	1,205	1,246	1,289	1,648	1,812	1,834
Pennsylvania.....	322	255	250	253	250	260	261	262	283	411	446	511	419
Texas.....	298	221	240	245	290	296	284	291	285	298	386	370	373

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	64
Reporting expenditures for plant and equipment.....	42
Value of products:	
Total for the industry.....	\$49,165,973
Reporting expenditures for plant and equipment.....	43,120,001
Expenditures for plant and equipment:	
Total for the industry.....	855,116
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	90,824
Expenditures for new machinery and operating equipment.....	669,323
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	94,969

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$6,612,816	\$7,451,118
Finished products.....	1,685,617	1,272,723
Materials, supplies, etc.....	4,927,199	6,178,395
End of year, total.....	7,775,125	8,588,507
Finished products.....	1,630,759	1,774,361
Materials, supplies, etc.....	6,144,366	6,814,146
Value of products for the industry, total.....	49,165,973	48,175,322
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	49,062,623	47,218,890
Value for establishments not reporting inventories.....	103,350	956,432

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	64	53
Number of establishments reporting power equipment.....	64	53
Prime movers, aggregate:		
Number.....	10	8
Horsepower.....	2,105	1,800
Prime movers, steam engines, driving generators—		
Number.....	3	18
Horsepower.....	1,850	11,800
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	350	
Prime movers not driving generators, total—		
Number.....	7	
Horsepower.....	255	
Steam engines—		
Number.....	1	(³)
Horsepower.....	75	
Diesel and semi-Diesel engines—		
Number.....	2	
Horsepower.....	80	
Other internal-combustion engines ² —		
Number.....	4	
Horsepower.....	100	
Generators, kilowatt rating, total.....	1,475	980
Generators, driven by—		
Steam engines, kilowatt rating.....	1,475	(³)
Generators, ordinarily idle (included above), kilowatt rating.....	275	(⁴)
Electric motors, total:		
Number.....	5,079	1,844
Horsepower.....	27,298	14,219
Driven by purchased energy—		
Number.....	4,600	1,756
Horsepower.....	22,753	13,489
Driven by energy generated in establishments reporting—		
Number.....	479	88
Horsepower.....	4,545	730
Electric energy (kilowatt-hours):		
Generated in plant.....	2,652,149	(⁴)
Purchased.....	23,239,131	10,329,503

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc. ³ Not called for on schedule.⁴ Data not available.

FIREARMS

[A preliminary report for this industry was issued September 11, 1940]

Description of the industry.—This industry, as constituted for census purposes, includes establishments primarily engaged in the manufacture of unmounted firearms—weapons made to be fired from the hand or from the shoulder (pistols, revolvers, rifles, and shot-guns) and of parts for such firearms.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1899.....	23	5,001	\$6,846,317	\$3,052,556	\$17,711,651	\$14,659,095	6,855
1937.....	21	6,847	9,670,152	4,333,194	21,554,870	17,221,676	(5)
1935.....	22	4,855	5,499,318	3,412,060	13,026,978	9,614,918	(6)
1933.....	22	3,382	3,163,648	2,169,328	9,214,095	7,044,767	(5)
1931.....	24	4,264	4,710,580	2,501,397	10,611,146	8,109,749	(5)
1929.....	21	6,838	9,209,551	4,117,099	21,970,367	17,853,268	5,217
1927.....	20	6,130	7,933,639	5,047,555	19,452,372	14,404,817	5,433
1925.....	20	4,470	5,583,907	3,174,446	15,179,363	12,004,917	5,577
1923.....	21	6,204	7,592,095	3,643,914	17,664,549	14,020,635	(6)
1921.....	20	4,726	5,730,487	2,696,085	12,883,842	10,187,757	(5)
1919.....	26	11,287	13,333,495	7,613,784	30,181,370	22,567,586	14,354
1914.....	29	7,064	5,067,053	2,669,618	10,543,753	7,874,135	3,341
1909.....	27	6,002	3,918,652	1,568,734	8,058,499	6,489,765	(6)
1904.....	30	6,224	3,722,850	1,738,012	8,275,560	6,537,548	15,683
1899.....	32	4,482	2,542,300	1,305,421	5,444,659	4,139,238	4,324

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939
[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Connecticut	Massachusetts	New York	Other States ¹
Number of establishments ¹	23	7	4	5	7
Proprietors and firm members.....	7	—	—	—	7
Persons reported by manufacturing establishments, total ²	6,061	3,171	1,186	1,649	55
Salaried officers of corporations ³	28	12	5	6	5
Manufacturing:					
Salaried employees ³	753	373	113	264	3
Wage earners (average for the year) ⁴	5,001	2,565	1,030	1,364	42
Distribution.....	157	99	38	15	5
Construction.....	113	113	—	—	—
Other.....	9	9	—	—	—
Salaries and wages, total ⁵	\$8,806,827	\$4,891,728	\$1,457,926	\$2,383,239	\$73,934
Salaried officers ³	180,055	109,814	32,480	27,000	10,761
Manufacturing:					
Salaries ³	1,323,567	667,343	185,982	464,817	5,425
Wages.....	6,846,317	3,742,806	1,185,618	1,866,598	51,295
Distribution.....	270,888	185,765	53,846	24,824	6,453
Construction.....	175,030	175,030	—	—	—
Other.....	10,970	10,970	—	—	—
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.....	3,052,556	1,687,401	768,762	548,520	47,867
Materials, supplies, and containers.....	2,554,540	1,432,174	681,176	397,064	44,126
Fuel.....	251,331	124,190	43,072	82,482	1,587
Purchased electric energy.....	184,591	73,073	40,384	68,980	2,154
Contract work.....	62,094	57,964	4,130	—	—
Value of products.....	17,711,651	9,703,809	3,179,970	4,632,068	195,804
Value added by manufacture ⁶	14,659,095	8,016,408	2,411,208	4,083,542	147,937

¹ California, 2 establishments; Michigan, 1; New Jersey, 1; Pennsylvania, 2; Wyoming, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
"Firearms" industry, all products, total value.....	\$17,711,651	\$21,554,870	\$21,970,367
Firearms, parts, and accessories made in this industry.....	17,105,004	20,601,083	17,352,916
Miscellaneous products not specified.....	40,246	—	—
Receipts for contract and repair work.....	277,723	953,787	4,617,451
Other products (not classified in this industry).....	¹ 288,678	—	—
Firearms, parts, and accessories, total value.....	17,268,915	21,142,802	17,701,448
Firearms, parts, and accessories made in this industry.....	17,105,004	20,601,083	17,352,916
Firearms, parts, and accessories made as secondary products in other industries.....	163,911	541,719	348,532

¹ Value of telescopic sights and handcuffs.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

PRODUCT	1939	1937	1929
Total value.....	\$17,268,915	\$21,142,802	\$17,701,448
Pistols and revolvers:			
Number.....	90,447	139,293	224,768
Value.....	\$1,584,864	\$2,521,670	\$2,974,994
Rifles:			
Total number.....	622,812	913,056	457,676
Total value.....	\$4,874,067	\$7,365,425	\$4,572,123
Repeating—			
Number.....	359,583	424,149	—
Value.....	\$3,991,684	\$5,586,780	—
Single-shot—			
Number.....	263,229	488,907	—
Value.....	\$882,383	\$1,778,645	—
Shotguns:			
Total number.....	486,429	552,239	559,271
Total value.....	\$6,101,810	\$7,269,162	\$8,865,944
Single-barrel (repeating and single-shot)—			
Number.....	388,988	452,439	—
Value.....	\$4,386,710	\$5,232,264	—
Double-barrel—			
Number.....	97,441	99,800	—
Value.....	\$1,715,100	\$2,036,898	—
Parts and accessories, value ¹	\$4,708,174	\$3,986,539	\$1,283,887

¹ Data not available.

² Figures include value of ordnance and ordnance accessories made by commercial manufacturers.

TABLE 5.—PRINCIPAL MATERIALS CONSUMED IN THE INDUSTRY, BY KIND, QUANTITY, AND COST, FOR THE UNITED STATES: 1939

KIND	Quantity	Cost	Quantity not reported, cost
Steel sheets and strip (except stainless and tool steel).....	Short tons 105	\$13,069	\$535
Other rolled steel (except stainless and tool steel).....	3,766	385,918	—
Steel forgings, purchased as such.....	57	7,794	84,332
Stainless steel.....	Pounds 48,432	22,838	—
Tool steel.....	84,035	33,631	155,897
Nickel and nickel alloys.....	11,586	1,864	50,268

TABLE 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939	5,001	4,409	4,635	4,763	4,762	4,778	4,868	4,913	4,954	5,129	5,313	5,607	5,876
1937	6,847	6,432	6,463	6,664	6,834	6,973	7,079	7,218	7,254	7,266	7,187	6,570	6,228
1929	6,838	6,878	6,991	7,011	6,997	6,948	6,869	6,885	6,844	6,798	6,728	6,633	6,477
Connecticut	2,565	2,281	2,385	2,439	2,434	2,429	2,455	2,447	2,453	2,587	2,713	2,967	3,190
Massachusetts	1,030	952	1,035	1,091	1,031	980	1,008	1,006	1,018	1,008	1,059	1,076	1,090
New York	1,364	1,131	1,174	1,191	1,257	1,328	1,367	1,421	1,445	1,491	1,495	1,517	1,550

TABLE 7.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry	23
Reporting expenditures for plant and equipment	14
Value of products:	
Total for the industry	\$17,711,651
Reporting expenditures for plant and equipment	17,469,361
Expenditures for plant and equipment:	
Total for the industry	1,257,439
Expenditures for new construction or major alterations of buildings and other fixed plant and structures	33,369
Expenditures for new machinery and operating equipment	1,209,259
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land	14,811

TABLE 8.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total	\$10,309,571	\$8,014,673
Finished products	2,871,197	1,694,556
Materials, supplies, etc.	7,438,374	6,320,117
End of year, total	10,261,361	10,802,166
Finished products	2,325,675	2,944,648
Materials, supplies, etc.	7,935,686	7,857,518
Value of products for the industry, total	17,711,651	21,554,870
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	17,711,651	21,554,870
Value for establishments not reporting inventories		

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments	23	21
Number of establishments reporting power equipment	22	21
Prime movers, aggregate:		
Number	14	25
Horsepower	6,855	5,217

TABLE 9.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators, total—		
Number	4	125
Horsepower	5,892	15,217
Steam engines—		
Number		116
Horsepower		11,725
Steam turbines—		
Number	2	17
Horsepower	5,600	13,212
Diesel and semi-Diesel engines—		
Number	1	
Horsepower	67	
Hydroturbines and water wheels—		
Number	1	12
Horsepower	225	1280
Prime movers not driving generators, total—		
Number	10	
Horsepower	963	
Steam engines—		
Number	3	
Horsepower	655	
Steam turbines—		
Number	3	(¹)
Horsepower	288	
Internal-combustion engines, ³ other than Diesel and semi-Diesel—		
Number	4	
Horsepower	20	
Prime movers not driving generators, ordinarily idle (included above), horsepower	5	(¹)
Generators, kilowatt rating, total	4,425	2,180
Generators, driven by—		
Steam turbines, kilowatt rating	4,230	
Diesel and semi-Diesel engines, kilowatt rating	45	(¹)
Hydroturbines and water wheels, kilowatt rating	150	
Electric motors, total:		
Number	3,455	1,610
Horsepower	18,897	13,064
Driven by purchased energy—		
Number	2,295	806
Horsepower	14,244	10,210
Driven by energy generated in establishments reporting—		
Number	1,160	804
Horsepower	4,653	2,854
Electric energy (kilowatt-hours):		
Generated in plant	6,574,909	(⁴)
Purchased	11,182,524	12,632,513

¹ Includes data for prime movers not driving generators.² Not called for on schedule.³ Gas, gasoline, etc.⁴ Data not available.

SAFES AND VAULTS

[A preliminary report for this industry was issued November 28, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of vault doors and linings, safe-deposit boxes and chests; fire-resistive and burglar-resistive safes and vaults and safe locks.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1927 TO 1939

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufacture ⁴	Horse-power of prime movers
1939.....	16	1,236	\$1,589,088	\$2,413,251	\$6,084,319	\$3,671,068	1,825
1937.....	14	1,132	1,445,413	1,997,640	5,149,397	3,151,757	(5)
1935.....	14	809	800,314	1,265,964	3,313,065	2,047,101	(6)
1933.....	21	933	643,411	937,557	2,917,905	1,980,348	(5)
1931.....	25	2,044	2,176,226	4,073,014	11,606,575	7,533,561	(5)
1929.....	27	3,033	4,438,698	6,392,461	19,362,192	12,969,731	2,065
1927 ⁷	25	3,386	4,494,497	7,226,295	18,439,550	11,213,255	1,965

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Figures for years prior to 1935 do not include cost of contract work.

⁴ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁵ Not called for on schedule.

⁶ Data not available.

⁷ No comparable data for years prior to 1927.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Ohio	Other States ¹
Number of establishments ²	16	8	8
Proprietors and firm members.....	6	2	4
Persons reported by manufacturing establishments, total ³	1,558	822	736
Salaried officers of corporations ⁴	22	11	11
Manufacturing:			
Salaried employees ⁵	207	110	97
Wage earners (average for the year) ⁶	1,236	632	604
Distribution.....	84	60	24

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	United States	Ohio	Other States ¹
Persons reported by manufacturing establishments—Continued.			
Construction.....	3	3	-----
Other.....	6	6	-----
Salaries and wages, total ²	\$2,285,911	\$1,203,412	\$1,082,499
Salaried officers ⁴	146,785	68,042	78,743
Manufacturing:			
Salaries ⁵	348,830	208,183	140,647
Wages.....	1,539,088	802,831	786,257
Distribution.....	190,846	113,994	76,852
Construction.....	5,299	5,299	-----
Other.....	5,063	5,063	-----
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total.....	2,413,251	1,007,033	1,406,218
Materials and supplies.....	2,275,394	923,308	1,352,086
Fuel.....	58,618	40,146	18,472
Purchased electric energy.....	58,646	29,706	28,940
Contract work.....	20,593	13,873	6,720
Value of products.....	6,084,319	3,010,314	3,074,005
Value added by manufacture ³	3,671,068	2,003,281	1,667,787

¹ California, 2 establishments; Indiana, 1; New York, 2; Pennsylvania, 2; Wisconsin, 1.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Safes and vaults, all products, total value.....	\$6,084,319	\$5,149,397
Safes and vaults made in this industry.....	5,307,077	4,675,050
Receipts for contract and repair work.....	342,699	204,235
Miscellaneous products not specified.....	112,456	-----
Other products (not classified in this industry).....	1,322,087	180,112
Safes and vaults, aggregate value.....	6,022,577	6,176,824
Safes and vaults made in this industry.....	5,307,077	4,675,050
Safes and vaults made as secondary products in other industries.....	715,500	1,501,774

¹ Value of light stampings, mechanical stokers, and gray-iron castings.

TABLE 4.—PRODUCTS BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

No detailed production statistics were collected for this industry; therefore, table 3 shows all production statistics available.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND FOR OHIO, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	1,236	1,116	1,094	1,100	1,133	1,165	1,178	1,222	1,240	1,292	1,357	1,426	1,509
1937.....	1,132	1,066	1,106	1,118	1,123	1,090	1,162	1,167	1,160	1,209	1,174	1,117	1,092
1929.....	3,033	3,074	3,069	3,052	3,006	2,995	2,990	3,002	2,967	3,040	3,050	3,064	3,092
Ohio.....	632	573	519	532	550	563	574	603	620	670	724	782	871

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	16
Reporting expenditures for plant and equipment.....	10
Value of products:	
Total for the industry.....	\$6,084,319
Reporting expenditures for plant and equipment.....	5,558,954
Expenditures for plant and equipment:	
Total for the industry.....	283,176
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	75,778
Expenditures for new machinery and operating equipment.....	207,123
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	275

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$2,674,247	\$2,082,718
Finished products.....	361,914	287,595
Materials, supplies, etc.....	2,312,333	1,795,118
End of year, total.....	2,500,730	2,260,263
Finished products.....	461,337	238,897
Materials, supplies, etc.....	2,039,393	1,971,366
Value of products for the industry, total.....	6,084,319	5,149,397
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	6,072,319	5,109,129
Value for establishments not reporting inventories.....	12,000	40,268

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929

	1939	1929
Number of establishments.....	16	27
Number of establishments reporting power equipment.....	16	26
Prime movers, aggregate:		
Number.....	6	8
Horsepower.....	1,825	2,065
Prime movers, steam engines, driving generators—		
Number.....	4	18
Horsepower.....	1,700	12,065
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	480	
Prime movers not driving generators, total—		
Number.....	2	
Horsepower.....	125	
Steam engines—		
Number.....	1	(²)
Horsepower.....	75	
Internal-combustion engines, ¹ other than Diesel and semi-Diesel—		
Number.....	1	
Horsepower.....	50	
Generators, kilowatt rating, total.....	980	2,105
Generators, driven by—		
Steam engines, kilowatt rating.....	980	(³)
Generators, ordinarily idle (included above), kilowatt rating.....	300	(⁴)
Electric motors, total:		
Number.....	1,310	1,260
Horsepower.....	12,708	11,833
Driven by purchased energy—		
Number.....	729	856
Horsepower.....	6,692	8,741
Driven by energy generated in establishments reporting—		
Number.....	581	404
Horsepower.....	6,016	3,092
Electric energy (kilowatt-hours):		
Generated in plant.....	620,000	(⁴)
Purchased.....	3,795,457	6,635,136

¹ Includes data for prime movers not driving generators.² Gas, gasoline, etc.³ Not called for on schedule.⁴ Data not available.

COLD-ROLLED STEEL SHEETS AND STRIP AND COLD-FINISHED STEEL BARS MADE IN PLANTS NOT OPERATED IN CONNECTION WITH HOT-ROLLING MILLS

[A preliminary report for this industry was issued November 16, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in cold-rolling steel sheets and strip and cold-finishing steel bars from purchased hot-rolled material. These commodities are also produced to a large extent by establishments classified in the "Steel works and rolling mills" industry which operate both hot- and cold-rolling mills. No detailed product statistics are given in this report, but the total production of cold-rolled steel sheets and strip and cold-finished steel bars, in all industries in which they are made, is shown in the "Steel works and rolling mills" industry report, "Principal Manufactures from Rolling Mill Products, Except Tin Plate and Terneplate and Wire and Wire Products."

Statistics for earlier years.—As this industry was established as a separate classification for the census

for 1939, the reports for 1937 were retabulated to obtain figures comparable with those for 1939. No figures are available, however, for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establishments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufacture ³	Horsepower of prime movers
1939	43	5,644	\$8,177,807	\$45,369,069	\$70,401,099	\$25,032,030	2,457
1937 ⁴	40	6,634	9,688,235	50,227,973	81,548,999	31,321,026	(⁵)

¹ See GENERAL EXPLANATIONS—Definition of establishment.

² See GENERAL EXPLANATIONS—Wage earners and wages.

³ Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

⁴ No comparable data for years prior to 1937.

⁵ Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Connecticut	Indiana	Massachusetts	Ohio	Pennsylvania	Other States ¹
Number of establishments ²	43	3	3	4	8	11	14
Proprietors and firm members	3					3	
Persons reported by manufacturing establishments, total ³	6,772	714	526	196	1,521	1,951	1,864
Salaried officers of corporations ⁴	71	3	5	5	12	23	23
Manufacturing:							
Salaried employees ⁴	704	89	49	32	143	206	185
Wage earners (average for the year) ⁴	5,644	553	391	146	1,314	1,663	1,577
Distribution	269	51	72	13	33	41	59
Construction	67	18	7		19	3	20
Other	17		2			15	
Salaries and wages, total ⁵	\$11,344,455	\$1,110,716	\$1,032,060	\$328,543	\$2,812,339	\$3,071,410	\$2,989,387
Salaried officers ⁴	697,364	39,254	112,333	21,750	136,759	189,230	198,038
Manufacturing:							
Salaries ⁴	1,665,623	189,753	153,124	64,115	378,365	436,813	443,453
Wages	8,177,807	754,444	596,054	213,046	2,128,564	2,308,209	2,177,490
Distribution	652,564	94,492	149,468	29,632	133,051	105,515	140,406
Construction	123,287	32,773	18,854		35,600	6,040	30,000
Other	27,830		2,227			25,603	
Cost of materials, supplies, fuel, purchased electric energy, and contract work, total	45,369,069	5,172,537	6,247,701	1,042,913	9,453,180	9,911,611	13,541,127
Materials and supplies	43,783,149	4,976,838	6,094,957	972,611	9,085,899	9,605,798	13,047,046
Fuel	613,234	46,251	69,895	21,037	136,642	135,226	204,183
Purchased electric energy	946,351	147,875	82,849	49,265	230,639	160,387	275,336
Contract work	26,335	1,573				10,200	14,562
Value of products	70,401,099	7,928,957	8,755,536	1,957,237	15,874,330	15,325,123	20,559,916
Value added by manufacture ⁵	25,032,030	2,756,420	2,507,835	914,324	6,421,150	5,413,512	7,018,789

¹ California, 1 establishment; Illinois, 3; Michigan, 3; New Jersey, 3; New York, 2; Rhode Island, 2.

² See GENERAL EXPLANATIONS—Definition of establishment.

³ See GENERAL EXPLANATIONS—Persons engaged—general classification.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.

⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS, FOR THE UNITED STATES: 1939 AND 1937

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES, 1939 AND 1937

Detailed production statistics shown in report for "Steel works and rolling mills;" therefore, no figures are given for this industry for tables 3 and 4.

TABLE 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

STATE	Average number employed during year	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
		January	February	March	April	May	June	July	August	September	October	November	December
United States:													
1939.....	5,644	5,367	5,414	5,514	5,428	5,326	5,269	5,327	5,410	5,433	6,048	6,545	6,646
1937.....	6,634	6,761	7,024	7,233	7,296	7,158	6,751	6,683	6,856	6,608	6,455	5,702	5,078
Connecticut.....	553	536	535	537	540	534	526	520	520	546	577	628	637
Illinois.....	354	259	298	321	315	314	326	330	336	399	439	451	457
Indiana.....	391	378	377	377	358	356	365	377	377	396	428	443	458
Massachusetts.....	146	137	132	138	142	141	139	139	143	146	158	165	169
Michigan.....	364	389	387	399	337	330	324	321	321	330	413	407	407
New Jersey.....	494	476	470	473	475	477	476	478	476	489	534	547	551
Ohio.....	1,314	1,275	1,244	1,228	1,220	1,195	1,200	1,208	1,248	1,389	1,507	1,519	1,539
Pennsylvania.....	1,663	1,582	1,632	1,700	1,709	1,650	1,586	1,623	1,651	1,365	1,502	1,924	1,971

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments:	
Total for the industry.....	43
Reporting expenditures for plant and equipment.....	36
Value of products:	
Total for the industry.....	\$70,401,099
Reporting expenditures for plant and equipment.....	66,841,828
Expenditures for plant and equipment:	
Total for the industry.....	1,347,447
Expenditures for new construction or major alterations of buildings and other fixed plant and structures.....	310,363
Expenditures for new machinery and operating equipment.....	983,969
Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.....	53,115

TABLE 7.—VALUE OF INVENTORIES OF MATERIALS AND FINISHED PRODUCTS, AND VALUE OF PRODUCTS: 1939 AND 1937

	1939	1937
Inventories:		
Beginning of year, total.....	\$9,819,650	\$10,544,672
Finished products.....	3,888,477	3,448,424
Materials, supplies, etc.....	5,931,173	7,096,248
End of year, total.....	12,287,641	10,603,887
Finished products.....	3,517,419	4,494,569
Materials, supplies, etc.....	8,770,222	6,109,318
Value of products for the industry, total.....	70,401,099	81,548,999
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand).....	70,289,723	81,536,549
Value for establishments not reporting inventories.....	111,376	12,450

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939¹

	1939
Number of establishments.....	43
Number of establishments reporting power equipment.....	42
Prime movers, aggregate:	
Number.....	9
Horsepower.....	2,457
Prime movers, driving generators, total—	
Number.....	8
Horsepower.....	2,407
Steam engines—	
Number.....	6
Horsepower.....	2,037
Hydroturbines and water wheels—	
Number.....	2
Horsepower.....	320
Prime movers, driving generators, ordinarily idle (included above), horsepower.....	1,747
Prime movers, steam engines, not driving generators—	
Number.....	1
Horsepower.....	50
Prime movers not driving generators, ordinarily idle (included above), horsepower.....	50
Generators, kilowatt rating, total.....	1,775
Generators, driven by—	
Steam engines, kilowatt rating.....	1,575
Hydroturbines and water wheels, kilowatt rating.....	200
Generators, ordinarily idle (included above), kilowatt rating.....	1,175
Electric motors, total:	
Number.....	4,881
Horsepower.....	100,246
Driven by purchased energy—	
Number.....	4,665
Horsepower.....	98,107
Driven by energy generated in establishments reporting—	
Number.....	216
Horsepower.....	2,139
Electric energy (kilowatt-hours):	
Generated in plant.....	900,000
Sold.....	208,209
Purchased.....	76,481,396

¹ Comparable data for 1929 not available.